



In the matter of the  
Nunavut Land Claims Agreement,  
*Nunavut Land Claims Agreement Act, S.C., 1993, c. 29*  
Article 12, Part 5

And

In the matter of an application by  
Agnico Eagle Mines Limited  
for Mine Development of the  
Meadowbank Gold Mine Project Proposal  
in the  
Kivalliq Region of Nunavut

**NIRB PROJECT CERTIFICATE [NO.: 004]**

**August XX, 2016**

## Schedule of Amendments to the Nunavut Impact Review Board's Meadowbank Project Certificate [004]

Amendment Number	Date of Amendment	Type of Amendment
001	November 20, 2009	Amendment of Project Certificate to reflect modification associated with the all-weather access road and Proponent Project Name Change
002	August XX, 2016	Amendment of Project Certificate to reflect development of additional open pit

## 1.0 BACKGROUND

### Whereas:

- ~~A. Pursuant to the Nunavut Land Claims Agreement (“NLCA”), the Board has considered the information submitted by Cumberland Resources Ltd. (Cumberland or Meadowbank Mining Corporation (“MMC”)) and has performed an environmental impact review of the Meadowbank Gold Project;~~
- ~~B. The Board has considered the list of commitments made by MMC and assumes these commitments which are set out in Appendix A of the Final Hearing report will all be fulfilled;~~
- ~~C. The Board has determined, pursuant to Article 12.5.5 of the Agreement, that, taking into account the implementation of the mitigative measures proposed by MMC and set out in the conditions to this certificate, this project proposal, is not likely to cause significant adverse environmental effects;~~
- ~~D. The Board has found, pursuant to Article 12.5.5 of the Agreement and taking into account all matters relevant to its mandate including Article 12.2.5 of the NLCA, that the Meadowbank Gold Project will enhance and protect the existing and future well being of the residents and communities of the Nunavut Settlement Area; and~~
- ~~E. The Board has received approval for its Recommendation and project specific Terms and Conditions as found in the NIRB Final Hearing Report to the Minister.~~
- A. Pursuant to the Nunavut Land Claims Agreement (NLCA), the Nunavut Impact Review Board (Board or NIRB) has completed a review of the potential ecosystemic and socio-economic effects of the Meadowbank Gold Mine Project, NIRB No. 03MN107 (Project);
- B. Following the issuance of the Project Certificate, Agnico Eagle Mines Ltd. (AEM, previous owner was Cumberland Resources Ltd.) applied to the NIRB to conduct further assessment and reconsideration of the terms and conditions in the Project Certificate to reflect additional activities to be carried out under the Vault Pit Expansion Project Proposal and the Board determined that it was appropriate to assess the potential ecosystemic and socio-economic effects of the Vault Pit Expansion Project Proposal and reconsider whether, under Section 12.8.2 of Article 12 of the NLCA, modifications to the terms and conditions of the original Project Certificate were necessary to reflect the projected effects of the Vault Pit Expansion Project Proposal;
- C. The Board has considered the list of commitments made by AEM throughout the NIRB’s review, during the NIRB Final Hearing for the Project (Appendix A), and during the NIRB Public Hearings for the Project and the Board has every expectation that the Proponent will fulfill the commitments made during the Final Hearing, the 12.8.2 Public Hearing associated with the Vault Pit Expansion Proposal and the amendment to Condition 32, within its Final Environmental Impact Statement (FEIS), the FEIS Addendum and contained within supporting documentation submitted during the review of the Project and assessment of effects and reconsideration associated with the Vault Pit Expansion Project Proposal, not just the commitments that are expressly included as terms and conditions in this Project Certificate;

- D. The Board has determined, pursuant to Sections 12.5.5 and 12.8.2 of Article 12 of the NLCA, that, taking into account the implementation of the measures necessary to prevent or mitigate the potential adverse environmental and socio-economic effects associated with the Project and set out as terms and conditions in this Project Certificate (as amended), the Meadowbank Gold Mine Project and Vault Pit Expansion Project Proposal are not likely to cause significant adverse ecosystemic and socio-economic effects;
- E. The Board has found, pursuant to Sections 12.5.5 and 12.8.2 of Article 12 of the NLCA and taking into account all matters relevant to its mandate including Section 12.2.5, that the Meadowbank Gold Mine Project and the Vault Pit Expansion Project Proposal will enhance and protect the existing and future well-being of the residents and communities of the Nunavut Settlement Area;
- F. The Minister of Indigenous and Northern Affairs Canada has accepted the NIRB Final Hearing Report for the Meadowbank Gold Mine Project (November 2006), the NIRB Public Hearing Report for the amendment to Condition 32 (July 2009), the NIRB Public Hearing Report for the Vault Pit Expansion Project Proposal and the recommended terms and conditions contained in those Reports are now included in the Project Certificate (as amended); and
- G. Recognizing the importance of co-ordination, integration and avoiding duplication with other monitoring requirements in permits, licences and other authorizations, the project-specific monitoring program, provided as Appendix D to this Project Certificate (as amended), will be issued in amended form after key regulatory authorizations, including land use permits, water licences and mineral leases, are issued for the Vault Pit Expansion Project Proposal activities.

**Now therefore, the Nunavut Impact Review Board pursuant to Section 12.5.12 and 12.8.3 of Article 12 of the Nunavut Land Claims Agreement, issues this Project Certificate for the Meadowbank Gold Mine Project, including the Vault Pit Expansion Project to Agnico Eagle Mines Limited, subject to the terms and conditions contained herein.**

## 2.0 Procedural (Project) History

On March 31, 2003, Cumberland Resources Ltd (the "Proponent" or "Cumberland") submitted its Project Description Report for the Meadowbank Gold Project (the "Project" or "Meadowbank") to the Nunavut Impact Review Board ("NIRB" or the "Board"). Following receipt of the Proponent's application, on September 23, 2003 the Board sent its Screening Decision to then Minister Robert Nault of the Department of Indian Affairs and Northern Development and proposed a review under Part 5 or 6 of Article 12 of the Nunavut Land Claims Agreement ("NLCA"). In reply, on December 3, 2003, Minister Nault referred the Project to the NIRB for a Part 5 Review.

On December 18, 2003 NIRB circulated the Draft Environmental Assessment Guidelines for the Project to the Distribution List. On February 20, 2004, the Board provided the Proponent with the Final Environmental Assessment Guidelines (the "EIS Guidelines") for the Project and advised the Proponent that a Draft Environmental Impact Statement ("DEIS") based on the EIS Guidelines was expected. The Proponent filed the DEIS on January 4, 2005. A Conformity Review of the DEIS was undertaken by NIRB. NIRB solicited input from the Distribution List and comments were received from Indian and Northern Affairs Canada ("INAC"), Department of Fisheries and Oceans Canada ("DFO"), Environment Canada ("EC"), Natural Resources Canada ("NRCan"), Health Canada ("HC"), Transport Canada ("TC"), Government of Nunavut ("GN") Department of Environment ("GN-DOE") and Department of Economic Development and Transportation ("GN EDT"), Kivalliq Inuit Association ("KivIA"), the Athabasca Denesuline Negotiation Team, and the Manitoba Denesuline. In order to discuss the DEIS and the NIRB review process with the public, public meetings and consultations were held in Chesterfield Inlet, Baker Lake, and Rankin Inlet in February

{...procedural history continues from pages 1 through 4 within the original project certificate for the Review of the Meadowbank Gold Mine Project and it is suggested to remove this section for the amended project certificate...}

## 2.0 PROJECT DESCRIPTION

The Meadowbank Gold Project as originally proposed by Cumberland Resources Inc. and now owned by AEM consists of an open pit gold mine located approximately 70 kilometres (km) north of the hamlet of Baker Lake on Inuit-owned surface lands. The mine site is comprised of: camp facilities; active mine areas including Bay-Goose pit, Portage pits and Vault pit; waste rock facility; landfill; landfarm remediation site; tailings storage facility and Portage attenuation pond; airstrip; waste and hazardous materials storage area; incinerator; fuel storage area; air monitoring station; dust monitoring station and weather station. In addition to mining infrastructure and activities, ancillary Project infrastructure is located approximately 2 km east of the hamlet of Baker Lake and consists of barge unloading facilities, a laydown storage and marshalling area, a 60 million litre fuel tank farm, associated interconnecting roads and a 110 km all-weather access road from the Hamlet of Baker Lake to the Meadowbank mine site. Supplies are shipped from locations within Canada via sealift to Baker Lake where they are offloaded at AEM's marshalling area and transported to the Meadowbank site via haul trucks along the 110 km AWAR.

The Vault Pit Expansion Project proposal includes the expansion of the Vault Pit to develop two small extensions know as Phaser Pit and the BB Phaser Pit which is an extension of the Vault Pit deposit.

These two small open pits would extend from the perimeter of Vault Pit to the southwest into Phaser Lake. The Vault Pit Expansion Project proposal includes the expected extraction of an additional 269,438 tonnes (t) of ore from Phaser Pit and 132,950 t from BB Phaser Pit. This would be in addition to the current approved production of approximately 29.8 million tonnes (Mt) and 10.7 Mt of ore from the entire Meadowbank mine pits and the Vault Pit, respectively, over the life of the mine. AEM further proposed the following activities and components at the Vault mine site: construction and operation of additional haul roads connecting the new pits to Vault Pit infrastructure; water diversion and management activities; dewatering and fish-out of Phaser Lake; and eventual re-flooding of Phaser Pit and BB Phaser Pit along Vault Pit.

The proposed Vault Pit Expansion Project would extend the life of the mine by approximately 30 days and dewatering activities and construction would commence in 2016 following the amendment to the Project Certificate. All activities associated with the construction, development, and operation of the proposed Phaser and BB Phaser Pits would continue to utilize the currently approved mine facilities.

### **3.0 Flexibility and Implementation of Project Certificate**

~~In certain circumstances, NIRB has the authority to reconsider the Terms and Conditions of the Project Certificate to ensure that the terms and conditions are achieving their purpose. For example, NIRB may revisit this certificate if NIRB feels the terms and conditions are not achieving their purpose.~~

~~If there is a problem for whatever reason in the implementation of these terms and conditions, the KivlIA may at any time seek a determination before the appropriate court as to whether or not any term and condition of this project certificate has been implemented. Any person or body that the court deems appropriate may seek the same remedy.~~

~~Further, to the extent that project related activities have already been conducted by the Proponent as of the date of issue of this Project Certificate, and to the extent that expected undertakings and commitments as listed in Appendix A have come into effect, NIRB's authority under Section 12.8.2 of the NLCA can be invoked as follows:~~

~~"NIRB may on its own account or upon application by a DIO, the proponent, or other interests, reconsider the terms and conditions contained in the NIRB certificate if it is established that:~~

- ~~a. The terms and conditions are not achieving their purpose;~~
- ~~b. The circumstances relating to the project or the effect of the terms and conditions are significantly different from those anticipated at the time the certificate was issued; or~~
- ~~c. There are other technological developments or new information which provide a more efficient method of accomplishing the purpose of the terms and conditions."~~

~~This Project Certificate is implemented in accordance with the reviewability section in the NLCA (Section 12.9.7):~~

~~"A licence, permit, certificate or other governmental approval which implements or incorporates any term or condition of a NIRB project certificate may not be called into question in a court of law on the grounds that the issuing agency thereby fettered its discretion or otherwise acted without jurisdiction, when implementing any term or condition of a NIRB project certificate."~~

~~**Now therefore, the Nunavut Impact Review Board pursuant to Article 12.5.12, issues this Project Certificate to Meadowbank Mining Corporation subject to the following terms and conditions:**~~

### **3.0 IMPLEMENTATION**

NIRB has the authority to reconsider the terms and conditions of the Project Certificate to ensure that the terms and conditions are achieving their purpose. Clearly the NIRB expects the Proponent to meet its obligations under this Certificate; however, the NIRB may revisit the Certificate if the NIRB determines that the terms and conditions are not achieving their purpose.

If the Kivalliq Inuit Association or other Designated Inuit Organization, or person or body that would normally have standing to seek this type of court determination, has concerns that any term or

condition is not being implemented, these parties may seek a determination before the appropriate court regarding whether or not the terms and conditions in the project certificate have been implemented. This Project Certificate is implemented by authorizing agencies in accordance with the reviewability section of the NLCA (Section 12.9.7):

“A licence, permit, certificate or other governmental approval which implements or incorporates any term or condition of a NIRB project certificate may not be called into question in a court of law on the grounds that the issuing agency thereby fettered its discretion or otherwise acted without jurisdiction, when implementing any term or condition of a NIRB project certificate.”

### **3.1 Overview of NIRB Monitoring Program**

As set out in Article 12, Sections 12.7.1 and 12.7.2 of the NLCA the NIRB has the jurisdiction to establish a project-specific monitoring program to: measure the ecosystemic and socioeconomic effects of a project; assess whether the project is in compliance with the prescribed project terms and conditions; share information with regulatory agencies to support the enforcement of land, water or resource use approvals and agreements; and to assess the accuracy of predictions contained in the environmental impact statements. Given the Board’s application of the precautionary approach to several aspects of this Project proposal, in the Board’s view project-specific monitoring will play a crucial role in addressing the uncertainty regarding project effects and enabling all parties to adapt mitigation measures on an ongoing basis to ensure the Project’s negative effects are prevented or limited to the extent possible.

The role of the Board with respect to the establishment of monitoring programs is to focus the terms and conditions in relation to the Project. With respect to existing or future general regional and territorial monitoring programs that may include some of the same monitoring parameters/indicators as the project-specific monitoring program, the NLCA also directs the NIRB to avoid duplication but facilitate co-ordination and integration between the project-specific monitoring programs required by the NIRB and more general programs such as the Nunavut General Monitoring Program. Where the requirements of regional or territorial programs are more extensive or substantively different than those established through the project certificate, at all times the Proponent must ensure compliance with the project certificate terms and conditions.

In order to co-ordinate, integrate and avoid duplication with other monitoring programs, but also to ensure that the NIRB’s project-specific monitoring program yields the information required to measure effects and adequately assess compliance with terms, conditions, regulatory instruments and agreements, the NIRB’s monitoring program is developed after consultation with responsible authorities, the resource and land owners and the proponent following a Regulators’ Meeting that typically occurs within several weeks after the responsible Minister has issued a decision that the Project can proceed to obtain regulatory authorizations and providing the Minister’s direction regarding recommended terms and conditions. A short time after the Regulators’ Meeting, the NIRB issues the project certificate, but the project-specific monitoring program, which is usually issued as an Appendix to the project certificate may not be issued in final form until some months after key regulatory authorizations, including land use permits, water licences, mineral leases, etc. are issued so that the monitoring program supplements and supports, and does not duplicate, the monitoring requirements in regulatory and land use instruments. Appendix D – Meadowbank Monitoring Program was issued to Agnico Eagle Mines Ltd. on July 14, 2011 following consultation with regulatory parties.



It is important to remember that the NIRB's monitoring program will have varying requirements over the course of the Project lifecycle, and that monitoring requirements will apply from construction to eventual abandonment and reclamation. In areas where there may be a need for flexibility in relation to the terms and conditions of the project certificate or their application, the NIRB has endeavoured to reflect this in the associated language and/or acknowledge that objectives may be achieved through various means. In addition, in the event that the monitoring program needs to be modified to better achieve its purpose, the Board, the Proponent, the Designated Inuit Organization or other interested parties may cause the Board, under Section 12.8.2 of the NLCA to revisit the monitoring program, or any other terms and conditions in the NIRB project certificate.

### **3.2 General Principles of Interpretation Applicable to Terms and Conditions:**

In order to view the project-specific terms and conditions set out within this Project Certificate in the appropriate context, the following general principles of interpretation apply to the Project Certificate in its entirety, with all terms and conditions being interpreted in accordance with:

- a. The NIRB's Final Hearing Report (namely NIRB File No.: 03MN107, Final Hearing Report for the Meadowbank Gold Project Proposal, August 2006 available from the NIRB's online public registry);
- b. The NIRB's Public Hearing Reports: namely NIRB File No.: 03MN107, Public Hearing Report for the reconsideration of Term and Condition #32 (June 2009); and NIRB File No.: 03MN107, Public Hearing Report for the Vault Pit Expansion Project (April 2016) (both available from the NIRB's registry);
- c. The rights, responsibilities, authorities and jurisdiction granted under the Nunavut Land Claims Agreement (NLCA);
- d. The limits and obligations imposed under laws of general application applicable to the Proponent or any party referred to in the term and condition, as those laws may be amended over time (e.g. privacy legislation, worker's health and safety, etc.);
- e. The specific jurisdictional and policy limits applicable to authorizing agencies, Nunavut Tunngavik Incorporated, the Kivalliq Inuit Association, or other regulatory authority with jurisdiction in respect of the Project;
- f. Where terms and conditions include specific references to items that must be taken into consideration or included in work plans, etc. these specific references are intended to establish minimum expectations but are not intended to limit the Proponent or prevent the Proponent from undertaking additional measures beyond those expressly prescribed in such terms and conditions; and
- g. As noted in the Final Hearing Report, for those items where a more stringent version of the precautionary principle has been applied, it is the Board's expectation that the adaptive management strategies chosen will be highly responsive to early warning signs that risks may materialize, and that rather than waiting for impacts to be noted before mitigation measures are triggered, thresholds and triggers will be set to require responses long before adverse impacts are likely.

### **3.3 Format of Terms and Conditions:**

Wherever possible, the NIRB has used the following format for the project-specific terms and conditions set out within this Project Certificate, so as to provide clear direction on the intended application, objectives and reporting requirements:

**Category:** Identifies the relevant environmental component or project activity to which the term and condition applies. Wherever possible categories have been labelled so as to directly associate back to the Final Environmental Impact Statement and Environmental Impact Statement Guidelines prepared for the Project.

**Responsible Parties:** Identifies the parties responsible for implementation of the term and condition. While this is generally the Proponent, at times other agencies have been implicated as appropriate.

**Project Phase:** Identifies the phase(s) of Project development to which the term and condition is applicable. Project phase may include any one or more of the following:

- Pre-Construction - includes site preparation and staging of materials and equipment in advance of construction
- Construction
- Operations
- Temporary Closure /Care and Maintenance
- Closure and Post-Closure Monitoring - includes abandonment, decommissioning and reclamation

**Objective:** Provides a short description of the impact or effect being mitigated. Where relevant, expectations regarding the timing for when terms and conditions will be deemed to be satisfied (i.e. sunset clause), who has discretion for determining it is satisfied has been provided.

**Term or Condition:** Provides specific direction on the required action or follow up. In most instances the NIRB has endeavoured to use generalized wording to allow for maximum flexibility in achieving the stated objective, however more explicit direction has been provided where deemed necessary.

**REVISED Term or Condition:** Where, upon reconsideration, the Board has recommended an amendment to the Terms or Conditions in the Project Certificate and the Minister has accepted the Board's recommendation, the Board has included the Original Term and Condition, followed by the REVISED Term or Condition, with deletions to the Term or Condition identified by strike through text and additions to the text identified in bold and underlining. Upon issuance of an amendment to the Project Certificate, the Proponent is required to comply with the text of the REVISED Term or Condition.

**NEW Term or Condition:** Where, upon reconsideration, the Board has recommended that the Project Certificate be amended by adding a new Term and Condition and the Minister has accepted the Board's recommendation, the Board has added the Term or Condition to the relevant section, has identified the Term or Condition as NEW and has added an alphabetical listing to the existing numbered Term or Condition immediately preceding the NEW Term or Condition. Upon issuance of an amendment to the

Project Certificate, the Proponent is also required to comply with any NEW Terms or Conditions added to the Project Certificate.

VARIED Term or Condition: Where the Minister has varied the Board's recommendations for a Term or Condition, the Board has identified the VARIED Term or Condition, with deletions to the Term or Condition identified by strike through text and additions to the text identified in bold and underlining. Upon issuance of an amendment to the Project Certificate, the Proponent is required to comply with the text of the VARIED Term or Condition.

REVISED AND VARIED Term or Condition: Where, upon reconsideration, the Board has recommended an amendment to the Terms or Conditions in the Project Certificate and the Minister has varied the Board's amendment recommendation the Board has identified the Term or Condition as REVISED by the Board and VARIED by the Minister, with deletions to the Term or Condition identified by strike through text and additions to the text identified in bold and underlining. Upon issuance of an amendment to the Project Certificate, the Proponent is required to comply with the text of the REVISED AND VARIED Term or Condition.

**Reporting Requirements:** Sets out any specific reporting parameters required to measure achievement of objectives or to demonstrate compliance, as well as the required frequency of reporting. Consideration will be given to coordination of Project Certificate reporting requirements with reporting requirements as established by other regulatory instruments associated with the Project.

It should be noted that for some of the existing terms and conditions of Project Certificate No. 004, a non-binding **Commentary** section had also been added following the specific term and condition as an aid to interpretation. The Commentary section reflects clarification of the term and condition, recording the common understanding and interpretation resulting from discussions and guidance provided at the Project Certificate Workshop held by teleconference on August 11, 2016. The Commentary section is offered as a reference only and is not legally binding; in the event of a conflict between the wording in the Project Certificate and the clarification provided in the Commentary, the express wording of the Project Certificate prevails.

### **3.4 Flexibility**

It is acknowledged that the NIRB's monitoring program will have varying requirements over the course of the Project lifecycle, and that monitoring requirements will apply from construction to eventual abandonment and reclamation. In areas where there may be a need for flexibility in relation to the terms and conditions of the Project Certificate or their application, the NIRB has endeavoured to reflect this in the associated language and/or acknowledge that objectives may be achieved through various means.

The NIRB retains the ability to give additional clarification or direction on an ongoing basis through its Monitoring Officer, with respect to compliance requirements for the Project. Upon request by the Proponent or other parties, the NIRB can provide additional clarification or direction regarding implementation of Project Certificate terms and conditions.

Where the objective of a Project Certificate term or condition can be achieved through more efficient alternate means, the Proponent is encouraged to consult with the NIRB (and other parties as required) to seek acceptance of proposed alternatives.

The NIRB has the authority to reconsider the terms and conditions of the Project Certificate to ensure that the terms and conditions are achieving their purpose. Clearly the NIRB expects the Proponent to meet its obligations under this Project Certificate, however, the NIRB may revisit the Project Certificate if the NIRB determines that the terms and conditions are not achieving their purpose.

### **3.5 Enforcement**

As noted in Section 12.10.3, where the terms and conditions of the Project Certificate are implemented or incorporated by reference into permits, certificates, licences or other governmental approvals, the enforcement of the terms and conditions included in that authorization remains with the agency responsible for the authorization (i.e. Authorizing Agency). In addition, under Part 8, Article 12 of the NLCA, if the Board determines that these terms and conditions are not achieving their purpose for any reason, including instances of significant non-compliance, the NIRB may revisit the terms and conditions contained in the Project Certificate.

### **3.6 Proponent Commitments**

The Board expects that AEM will fulfill all commitments made during the Final Hearing, the Public Hearings, within its Final Environmental Impact Statement (FEIS), the FEIS Addendum and supporting documentation submitted during the Review, not just those commitments that have been incorporated into the Terms and Conditions of this Project Certificate.

To support transparency and accountability associated with the Proponent's commitments, the Board encourages the Proponent to provide, in an annual report to the NIRB, a summary of the status of the Proponent's progress with respect to meeting any commitments which are intended to prevent or mitigate adverse ecosystemic or socio-economic effects of the Project and that are beyond the scope of ensuring compliance with Project Certificate terms and conditions.

## 4.0 PROJECT-SPECIFIC TERMS AND CONDITIONS

It is noted that all terms and conditions as listed below apply to the Meadowbank Gold Mine Project while the following terms and conditions apply to the Vault Pit Expansion Project: 3 through 7, 11, 13, 14, 23, 26, 27, 49 (revised), 53 (revised) 60, 63, 64, 65, 69, 70, 74, 75, 78 through 80, and 85.

The NIRB further notes the removal of term and condition #48 from Project Certificate No. 004 for the Meadowbank Gold Mine Project, as it will no longer be applicable given the associated Vault Pit Expansion Project:

### 4.1 General

In addition to the project specific terms and conditions below, Agnico Eagle Mines Ltd. (AEM; *noted as Meadowbank Mining Corporation in the original Project Certificate*) must obtain and comply with all applicable licenses, orders, permits, directions, which may result from but not be limited to, legislation identified in Appendix B and C.

In the event of a conflict between Cumberland's Commitments from the Final Hearing (Appendix A) and the Terms and Conditions of the Project Certificate, the Terms and Conditions of the Project Certificate prevail. Also, in the event of a conflict with the "Commentary" and the Terms and Conditions, the Terms and Conditions prevail. (The "Commentary" is not to be construed as legally binding).

AEM (*noted as MMC in the original Project Certificate*) will be involved in the monitoring program as found in Appendix D to this project certificate. Appendix D will be provided by NIRB within six (6) months of issuance of all regulatory authorizations.

~~The following terms and conditions reference Cumberland as the Proponent. However, in light of correspondence from NIRB to the Proponent dated December 22, 2006, and NIRB's decision, the following terms and condition apply to MMC even though the Board expects Cumberland will guarantee and/or be responsible, if necessary, for the obligations of Meadowbank Mining Corporation.~~

~~The following terms and conditions reference Cumberland as the Proponent. However, in light of AEM's acquisition of the Meadowbank Gold Mine Project through its purchase of Cumberland Resources Ltd in 2007 and the change in the Proponent name on Project Certificate No. 004 on November 20, 2009, the following terms and conditions apply to AEM.~~

#### Proponent's Commitments

1. The commitments in this Final Hearing Report as Appendix A: Cumberland's<sup>1</sup> Commitments from the Final Hearing, are incorporated herein and must be met. In the event of a conflict between Appendix A and the Terms and Conditions of the Project Certificate, the Terms and Conditions of the Project Certificate prevail.

#### NIRB's Commitment

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<sup>1</sup> See Letter dated December 22, 2006 to Mr. Craig Goodings, Cumberland Resources Ltd, from Ms. S. Briscoe, Nunavut Impact Review Board, Re: Meadowbank Mining Corporation.

2. NIRB will appoint a Monitoring Officer to monitor the Meadowbank Project in accordance with the purpose of a monitoring program pursuant to section 12.7.2 of the NLCA for the full life of the Meadowbank Project, including abandonment and restoration. Subject to direction from NIRB, the responsibilities of the NIRB Monitoring Officer are not to duplicate the IIBA and will include:
  - a. giving direction to regulatory agencies, Cumberland and the Meadowbank Gold Mine Socio-economic Monitoring Committee to supply NIRB with reports and information respecting the Project's operations and impacts and the implementation of mitigative measures;
  - b. conducting a periodic evaluation of the Project monitoring program;
  - c. compiling a report on the adequacy of the monitoring program and on the ecosystemic and socio-economic impacts of the Project; and
  - d. where appropriate, recommending to NIRB reconsideration of Terms and Conditions in accordance with section 12.8.2 of the NLCA.

Commentary:

In (a) the "direction" is measured by guidance found in NLCA 12.7.2 and 12.7.3

**Regulatory Requirements (General)**

3. Cumberland must obtain all required federal and territorial permits and other approvals, and shall comply with the requirements of such regulatory instruments.

Commentary:

*See Appendix B for a list of required permits and other approvals.*

4. Cumberland shall take prompt and appropriate action to remedy any noncompliance with environmental laws and regulations and/or regulatory instruments, and shall report any non compliance as required by law immediately and report the same to NIRB annually.

Commentary:

*Cumberland is advised of the emergency 24 hr spill line for Nunavut 867-920-8130, the INAC general inquires phone number 867-975-4275, KivIA's reporting line 867-645-2810 or 867-645-2800, and the Environment Canada 24-hour Emergency Pager number 867-920-5131.*

5. Cumberland shall meet with respective licensing authorities prior to the commencement of construction to discuss the posting of adequate performance bonding. Licensing authorities are encouraged to take every measure to require that sufficient security is posted before construction begins. This bonding should not duplicate other amounts of security required (eg. the NWB).

Commentary:

*See also Term and Condition 80.*

*See DIAND's Mine Site Reclamation Policy for Nunavut, General Principles on pages 5 and 6.*

*"Prior to the commencement of construction" means before the start of any construction activity, as defined by Cumberland in its application or during the NIRB review, including those activities required to construct the road.*

## **Monitoring Records**

6. All monitoring information collected pursuant to regulatory requirements for the Meadowbank Project shall contain the following information:
  - a. The person(s) who performed the sampling or took the measurements including any accreditations;
  - b. The date, time and place of sampling or measurement, and weather conditions;
  - c. Date of analysis;
  - d. Name of the person(s) who performed the analysis including accreditations;
  - e. Analytical methods or techniques used; and
  - f. Results of any analysis.

### Commentary:

*Pursuant to the NLCA Section 12.9.8, these are minimum criteria. Standard monitoring methods apply through regulatory instruments. In addition, it is important to note that where the Project Certificate mentions monitoring, this includes baseline monitoring where needed; effects monitoring; and compliance monitoring. See Pg 87 of Final Hearing Report.*

7. Cumberland shall keep and maintain the records, including results, of any monitoring, data, or analysis, for a minimum of the life of the Project, including closure and post-closure monitoring. This time period shall be extended if requested by NIRB, GN, INAC, DFO, EC or the NWB.

## **4.2 Ecosystemic Terms and Conditions**

### **Water Quality and Waste Management**

#### *General:*

8. Cumberland shall, within 30 days of re-opening of the camp, re-sample existing groundwater monitoring wells and combining the sampling data with existing rounds of groundwater sampling data, re-evaluate the salinity, major ion concentrations, and dissolved metal load of groundwater flowing to the mine pits and incorporate the results into the water quality monitoring and treatment program. At the time samples are taken Cumberland shall also assess the condition of existing groundwater monitoring wells and replace any defective wells. Cumberland shall continue to undertake semi-annual groundwater samples and re-evaluate the groundwater quality after each sample collection. Cumberland shall report the results of each re-evaluation to NIRB's Monitoring Officer, INAC and EC, and incorporate the results of the additional data into the water license application to the NWB.

#### Commentary:

*If weather conditions prevent re-sampling of existing groundwater monitoring wells within 30 days of opening the camp due to the frozen state of the wells, Cumberland shall sample the wells as soon as possible once the wells thaw. Semi annual groundwater sampling is to occur for the life of the project.*

9. Cumberland shall provide detailed plans for water treatment for the tailings (reclaim pond) discharge, and on a contingency basis for the attenuation pond discharge(s) and for the pits, including estimates of treatment efficiency for each parameter of concern and the description of pH adjustments in the water license application to the NWB.
10. Cumberland shall provide details of the camp sewage treatment, including the type of treatment to be used and the expected treatment capabilities, in the water license application to the NWB.

11. Cumberland shall provide details regarding the effluent outfall configuration, including discharge characteristics, the likely behavior of the plume(s), and bathymetric information for Wally Lake in the water license application to the NWB.
12. Cumberland shall provide details of a comprehensive water use and water management plan for the Baker Lake marshalling area, including monitoring of the discharge from the marshalling area sump, in the water license application to the NWB.
13. Cumberland shall not permit the water discharged into Wally Lake and Third Portage Lake to exceed receiving environment discharge criteria established by the NWB or as otherwise required by law.

Commentary:

*See Term and Condition 22*

14. Cumberland shall not remove dewatering dikes until the quality of water contained within them is of sufficient quality to meet receiving environment discharge criteria established by the NWB or as otherwise required by law.
15. Cumberland shall within two (2) years of commencing operations re-evaluate the characterization of mine waste materials, including the Vault area, for acid generating potential, metal leaching and non metal constituents to confirm FEIS predictions, and re-evaluate rock disposal practices by conducting systematic sampling of the waste rock and tailings in order to incorporate preventive and control measures into the Waste Management Plan to enhance tailing management during operations and closure. The results of the re-evaluations shall be provided to the NWB and NIRB's Monitoring Officer.

Commentary

*"Commencing operations" means the start of any operational activity as defined by Cumberland in its' application or during the NIRB review.*

16. N/A-Missed Number
17. Cumberland shall undertake a detailed technical review of all dike and pitwall designs at the final design stage, and submit the final dike designs for water depths of greater than 10 metres for an expert analysis and Cumberland shall include the detailed technical review and the expert analysis in the application to the NWB for a water license.
18. Cumberland shall commit to a pro-active tailings management strategy through active monitoring, inspection, and mitigation. The tailings management strategy will include the review and evaluation of any future changes to the rate of global warming, compliance with regulatory changes, and the ongoing review and evaluation of relevant technology developments, and will respond to studies conducted during the mine operation.
19. Cumberland shall provide for a minimum of two (2) metres cover of tailings at closure, and shall install thermistor cables, temperature loggers, and core sampling technology as required to monitor tailing freezeback efficiency. Cumberland shall report to NIRB's Monitoring Officer for the annual reporting of freezeback effectiveness.

Commentary:

*See page 67 of Final Hearing Report.*

20. Prior to construction, Cumberland shall identify mitigation measures that can be taken if groundwater monitoring around the tailings facility demonstrates that contamination from



tailings has occurred through the fault. Upon drawdown of the North arm of Second Portage Lake, Cumberland shall conduct further tests to assess the permeability of any faults and provide the results to regulators. If doubt remains Cumberland shall seal the fault and conduct further permeability testing and monitoring.

Commentary

*"Prior to construction" means prior to construction (as defined by Cumberland in its application or during the NIRB review) of any component of the Project, including the road.*

*Monitoring:*

21. Cumberland shall fund and install a weather station at the mine site to collect atmospheric data, including air temperature and precipitation.
22. Prior to the commencement of the Project, Cumberland shall fund and install an on site lab that has the capability to monitor parameters at a type and at a frequency acceptable to the NWB and EC at all site discharge points. The results of these analyses, as well as any other water quality monitoring required by regulatory authorities shall be used in the submission of a receiving water assimilative capacity water quality assessment study of concern to regulators. The lab shall be certified for environmental water quality analysis purposes with standards to include the calibration of water quality monitoring instruments. Cumberland shall file proof of application to become accredited upon the request of the NWB.

Commentary:

*"Prior to commencement of the Project" means before the start of any activity for any component or phase of the project (including the road component).*

*An assimilative capacity assessment study relies on the establishment of Ecological Quality Objectives that must be met outside of the mixing zones to ensure protection of the receiving environment.*

23. For the purposes of monitoring quality assurance and quality control ("QA/QC"), Cumberland shall ensure that water quality monitoring performed at locations within receiving waters that allow for an assimilative capacity assessment of concern to regulators, be carried out by an independent contractor and submitted to an independent accredited lab for analysis, on a type and frequency basis as determined by the NWB. Results of analysis shall be provided to the NWB and NIRB's Monitoring Officer.

Commentary:

*NIRB's preference is for independent, third party sampling. However in the case where MMC collects its own samples, the sampling shall be conducted in accordance with a methodology approved by NWB though a Quality Assurance /Quality Control ("QA/QC") plan and must be submitted to an independent third party laboratory for analysis.*

*Waste management:*

24. Cumberland shall identify an area and design for a landfill for disposal of operational and closure non-salvageable materials, including a list of any nonsalvageable materials, and a procedural manual for preparation of location and placements of these materials, and incorporate the design into the final Waste Management Plan as instructed by the NWB.
25. Cumberland shall manage and control waste in a manner that reduces or eliminates the attraction to carnivores and/or raptors. Cumberland shall employ legal deterrents to carnivores

and/or raptors at all landfill and waste storage areas. The deterrents are to be developed taking into consideration Traditional Knowledge and in consultation with the HTO, EC and INAC and incorporated into the final Waste Management Plan prior to filing the Plan with the NWB.

Commentary:

*GN-DOE should be included in consultations regarding the use of deterrents for carnivores and raptors.*

26. Cumberland shall ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including wind-blown debris.
27. Cumberland shall ensure that the areas used to store fuel or hazardous materials are contained using safe, environmentally protective methods based on practical, best engineering practices.

Commentary:

*MMC is encouraged to consult with EC and GN for expert advice.*

28. Cumberland shall become a signatory to the International Cyanide Management Code, communicate this to shippers, and do so prior to Cumberland storing or handling cyanide for the Project.

**Project Alternatives and Planned Changes**

29. Cumberland shall report to NIRB if and when Cumberland develops plans for an expansion of the Meadowbank Gold Mine, and in particular if those plans affect the selection of Second Portage Lake as the preferred alternative for tailings management.

Commentary:

*"Second Portage Lake" refers to northwest arm of Second Portage Lake. The term "expansion" is to reflect normal impact assessment parameters for that word including space and time.*

30. Cumberland shall meet with EC and the DFO to ensure that the information required for the application to add the northwest arm of Second Portage Lake as a tailings impoundment area under Schedule 2 of the *Metal Mining Effluent Regulations*, including the No Net Loss Plan to offset losses expected as a result of all other Project infrastructure, is complete and the application can be processed according to law.

**All-Weather Private Access Road**

31. Cumberland shall provide detailed stream crossing design criteria, including consideration of the DFO Operational Statement for Clear-span bridges for all water crossings identified to have fish presence, final crossing designs, site specific mitigation procedures, an effects monitoring program, and a maintenance and closure plan for all water course crossings, to the DFO and the NWB for review and approval.

Commentary:

*In addition to DFO and NWB, Include INAC and GN on submissions Amended*

Amended Condition #32

32. AEM shall operate the all-weather road as a private access road, and implement all such measures necessary to limit non-mine use of the road to authorized, safe and controlled use by

all-terrain-vehicles for the purpose of carrying out traditional Inuit activities. The measures AEM shall undertake include, but are not limited to:

- a. Maintaining a gate and manned gatehouse at kilometre 5 of the Private Access Road;
- b. In consultation with the Hamlet of Baker Lake, the local HTO, and the KivIA, update the All-weather Private Access Road Management Plan to set out the criteria and processes to authorize and ensure safe and controlled non-mine use of the road by all-terrain-vehicles for the purpose of carrying out traditional Inuit activities, and measure to limit all other non-mine use of the road. The updated Plan is to be submitted to the GN, INAC, and KivIA for approval no later than one (1) month after the approval of revised Condition 32.
- c. The posting of signs in English and Inuktitut at the gate, each major bridge crossing, and each 10 kilometres of road, stating that unauthorized public use of the road is prohibited;
- d. The posting of signs in English and Inuktitut along the road route to identify when entering or leaving crown land;
- e. Prior to opening of the road, and annually thereafter, advertise and hold at least one community meeting in the Hamlet of Baker Lake to explain to the community that the road is a private road with non-mine use of the road limited to approved, safe and controlled use by all-terrain-vehicles for the purpose of carrying out traditional Inuit activities.
- f. Place notices at least quarterly on the radio and television to explain to the community that the road is a private road with non-mine use of road limited to authorized, safe and controlled use by all-terrain-vehicles for the purpose of carrying out traditional Inuit activities.
- g. Record all authorized non-mine use of the road, and require all mine personnel using the road to monitor and report unauthorized non-mine use of the road, and collect and report this data to NIRB one (1) year after the road is opened and annually thereafter; and
- h. Report all accidents or other safety incidents on the road, to the GN, KivIA, and the Hamlet immediately, and to NIRB annually.

Original Condition #32: Cumberland shall operate the all-weather road as a private access road, and implement measures to limit public access to the road, including:

- a. The installation of locked gates at bridges 1 and 4;
- b. The posting of signs in English and Inuktitut at each gate, each major bridge crossing, and each 10 kilometres of road, stating that public use of the road is prohibited;
- c. The posting of signs in English and Inuktitut along the road route to identify when entering or leaving crown land;
- d. Prior to the opening of the road, advertise and hold at least one community meeting in the Hamlet of Baker Lake to explain to the community that the road is restricted to mine use only;
- e. Place notices on the radio and television to inform the residents of the Hamlet of Baker Lake that the road is restricted to mine use only;
- f. Require all mine personnel using the road to monitor and report unauthorized non-mine use of the road, and collect and report this data to NIRB one (1) year after the road is opened and annually thereafter; and

- g. Report any information received, including accidents or other safety incidents on the road, including the locked gates, to the GN, KivIA, and the Hamlet immediately, and to NIRB annually.
33. Cumberland shall update the Access and Air Traffic Management Plan to:
- a. include an All-weather Private Access Road Management Plan, including a right-of-way policy developed in consultation with the KivIA, GN, INAC and the Hamlet of Baker Lake, for the safe operation of the all-weather private access road; and
  - b. to facilitate monitoring of the environmental and socio-economic impacts of the private road and undertake adaptive management practices as required, including responding to any concerns regarding the locked gates.
34. Cumberland shall, in consultation with the Hamlet of Baker Lake, KivIA, and the Royal Canadian Mounted Police, facilitate the hiring of a full-time road safety, search and rescue position to respond to safety matters arising from mine and unauthorized non-mine use of the all-weather private access road, including consulting with Baker Lake and Chesterfield Inlet Elders to incorporate Traditional Knowledge into search and rescue operations.

Commentary:

*In coordination with CGS - Glen Higgins, Manager of Emergency Services, Community Government Services (867) 975.5403, [ghiggins@gov.nu.ca](mailto:ghiggins@gov.nu.ca).*

*Given the 24 hour operation of the project, it may be necessary to have more than one position.*

35. Cumberland shall reclaim the all-weather private access road at the end of the mine life to prevent any future use of the road, including scarification of the road and restoration of the natural hydrology, topography, and vegetation, subject only to Cumberland and/or its successor seeking NIRB Article 12 approval for the road to be maintained and operated beyond the life of the mine.

**Marine Environment**

36. Cumberland shall ensure the placement of local area marine mammal monitors onboard all vessels transporting fuel or materials for the Project through Chesterfield Inlet.
37. Cumberland will contract only Transport Canada certified shippers to carry cargo for the Project, and will require shippers transporting cargo through Chesterfield Inlet to carry the most up-to-date emergency response/spill handling equipment as recommended and accepted by the Government of Canada with the crew trained to deploy the equipment, including practice drills deploying spill equipment in remote locations within the Inlet.

Commentary:

*Shippers are responsible for training the crew. KIA and Chesterfield Inlet should be notified when a practice drills is to be undertaken.*

*An operating commercial vessel without Transport Canada certification is in violation of the Canadian Shipping Act (CSA).*

38. Cumberland shall make every reasonable effort to minimize the number of ships and barges transporting cargo for the Project, and require shippers transporting cargo for the Project

through Chesterfield Inlet to be operated in accordance with safe shipping management policies, including using Canadian Hydrographic Service published detailed marine charts and nautical instructions, and be fitted with modern state-of-the-art navigation equipment.

Commentary:

*Vessel numbers are not regulated. Certified vessels must be compliant with Canada Shipping Act.*

39. Within three (3) months of contracting with a shipping company to transport cargo to the Project through Chesterfield Inlet and prior to the commencement of shipping, Cumberland shall advertise and hold a community information meeting in Chesterfield Inlet to fully discuss the shipping program for the Project. Thereafter, Cumberland shall annually advertise and hold a community information meeting in Chesterfield Inlet to report on the Project and to hear from Chesterfield Inlet residents and respond to concerns. A consultation report shall be submitted to NIRB's Monitoring Officer within one month of the meeting.
40. Cumberland shall gather Traditional Knowledge from the local HTOs and conduct a minimum of a one-day workshop with residents of Chesterfield Inlet to more fully gather Traditional Knowledge about the marine mammals, cabins, hunting, and other local activities in the Inlet. Cumberland shall report to KivIA and NIRB's Monitoring Officer annually on the Traditional Knowledge gathered including any operational changes that resulted from concerns shared at the workshop.

Commentary:

*Copy DFO on result.*

41. Subject to vessel and human safety considerations, Cumberland shall require shippers carrying cargo to the Project through Chesterfield Inlet to follow the following mitigation procedures in the event that marine mammals are in the vicinity of the shipping activities:
  - a. Wildlife will be given right of way;
  - b. Ships will maintain a straight course, constant speed, and will avoid erratic behaviour; and
  - c. When marine mammals appear to be trapped or disturbed by vessel movements, the vessel will stop until the mammals have moved away from the area.

Commentary:

*Transport Canada - Marine Safety only regulates ship maneuvers made to avoid collisions with other ships.*

- (a) Wildlife means marine mammals. GN is responsible for polar bears.*

42. Cumberland shall ensure all fuel transfer operations take place in accordance with the *Arctic Waters Pollution Prevention Act* and relevant oil transfer guidelines.

Commentary:

*Canada Shipping Act is applicable if an Oil Handling Facility (OHF) is operated by Cumberland. Transport Canada - Marine Safety would deal directly with the Shipper on issues related to oil transfers.*

43. Lightering activities at Helicopter Island are not approved, except in case of emergency only, and in such case Cumberland shall explain why all other methods were not practical, meaning technically, logistically, and financially not feasible.

44. Within one (1) month of contracting with a shipper, Cumberland shall submit a comprehensive Spill Contingency and Emergency Response Plan to regulatory authorities.

Commentary:

*Copies of plan should be submitted to EC, TC, GN, DFO, and NWB Transport Canada - Marine Safety will require an Oil Pollution Emergency Plan for any Oil Handling Facility operated by Cumberland.*

45. Cumberland shall carry, and require contracted shippers to carry adequate insurance to fully compensate losses arising from a spill or accident, including but not limited to the loss of resources arising from the spill or accident. Any claims are to be reported to proper officials with a copy to NIRB’s Monitoring Officer.

Commentary:

*Certified vessels must be compliant with Canada Shipping Act (CSA) and the Arctic Waters Pollution Prevention Act (AWPPA).*

**Fish and fish-habitat**

46. Cumberland shall apply for *Fisheries Act* approval for the freshwater intake pipe for the Project, and submit for DFO approval a detailed plan of the proposed intake, including siting, design of intake screens in accordance with the DFO Freshwater End-of-Pipe Fish Screen Guidelines, construction and operation considerations, fish and fish habitat impacts, and mitigation and monitoring plans.
47. Cumberland shall develop an adaptive approach to managing the water flow from Third Portage Lake, including the consideration of alternatives to deepening the easternmost channel; submission of detailed design of the easternmost channel modifications; a monitoring program for channel erosion, verification of the maintenance of water levels in Third Portage Lake, and the success of fish habitat enhancements; and contingencies in the event of channel failure, for approval by the DFO.
- ~~48. Cumberland shall demonstrate to the satisfaction of the DFO that the water management framework, including the embankment details and diversion ditch, will permit the maintenance of over wintering fish habitat in Phaser Lake through the life of the Project.~~

<b>Term and Condition No.</b>	<b>49</b>
<b>Category:</b>	Fish and Fish Habitat
<b>Responsible Parties:</b>	The Proponent
<b>Project Phase:</b>	Construction
<b>ORIGINAL Term or Condition:</b>	Cumberland shall develop, implement and report on the fish-out programs for the dewatering of Second Portage Lake, Third Portage Lake and Vault Lake. This must be done in consultation with the DFO, Elders and the HTOs, and in a manner that optimizes the acquisition of northern fisheries science and augments baseline fisheries data to support monitoring programs and the final design of fish habitat compensation for the Project.
<b>REVISED Term or Condition:</b>	<b>Agnico Eagle Mines Ltd.</b> shall develop, implement and report on the fish-out programs for the dewatering of Second Portage Lake, Third Portage Lake, Vault Lake <b>and Phaser Lake</b> . This must be done in consultation with the DFO, Elders and the HTOs, and in a manner that optimizes the

	acquisition of northern fisheries science and augments baseline fisheries data to support monitoring programs and the final design of fish habitat compensation for the Project.
<b>Reporting Requirements</b>	Results of the fish-out programs should be provided in the annual report to the NIRB.

Commentary:

"Second Portage Lake" refers only to the northwest arm of Second Portage Lake.

50. Cumberland shall, in consultation with the DFO, undertake to prevent the barge landing facility from infilling of fish habitat, including considering using geotextile material in a manner that is capable of maintaining bottom substrate for benthic invertebrates and fish.
51. Cumberland shall engage the HTOs in the development, implementation and reporting of creel surveys within waterbodies affected by the Project to the GN, DFO and local HTO.
52. Cumberland shall enforce a no-fishing policy for employees while working on the job site.

Commentary:

"Employees" refers to all mine workers.

<b>Term and Condition No.</b>	<b>53</b>
<b>Category:</b>	Fish and Fish Habitat
<b>Responsible Parties:</b>	The Proponent
<b>Project Phase:</b>	Construction and Operations
<b>ORIGINAL Term or Condition:</b>	Cumberland shall, in consultation with the HTOs and DFO, develop a Fish Habitat Monitoring Plan, including augmenting baseline fisheries data in the period prior to operation, with the clear objective of demonstrating the success of the No Net Loss Plan approved by the DFO.
<b>REVISED Term or Condition:</b>	<b>Agnico Eagle Mines Ltd.</b> shall, in consultation with the HTOs and DFO, develop a Fish Habitat Monitoring Plan, including augmenting baseline fisheries data in the period prior to operation, with the clear objective of demonstrating the success of the No Net Loss Plan approved by the DFO. <b><u>The Fish Habitat Monitoring Plan should include Phaser Lake.</u></b>
<b>Reporting Requirement</b>	The updated plan should be provided to the NIRB for review at least 30 days prior to commencement of construction activities. Results from the fisheries baseline data to be provided in the annual report to the NIRB.

**Wildlife and Terrestrial**

54. Cumberland shall provide an updated Terrestrial Ecosystem Management Plan, to the GN, EC and INAC, within three (3) months of the issuance of the Project Certificate including:
  - a. Updated terrestrial ecosystem baseline data;
  - b. Details of the method and rationale for conducting monitoring surveys prior to the commencement of construction;
  - c. Statistical validation to support the conclusions drawn from monitoring impacts of the mine and infrastructure on wildlife;
  - d. A detailed analysis of the method of distinguishing between cow/calf groups from other caribou group observations;

- e. Details of a comprehensive hunter harvest survey to determine the effect on ungulate populations resulting from increased human access caused by the all-weather private access road, including establishing preconstruction baseline harvesting data, to be developed in consultation with local HTOs, the GN-DOE and the Nunavut Wildlife Management Board;
- f. Details of annual aerial surveys to be conducted to assess waterfowl densities in the regional study area during the construction phase and for at least the first three (3) years of operation, with the data analyzed and compared to baseline data to determine if significant effects are occurring and require mitigation.
- g. Details of an annual breeding bird plot surveys and transects along the all-weather road to be conducted during the construction phase and for at least the first three (3) years of operation.
- h. Details of a monitoring program, including recording the locations and frequency of observing caribou and carnivores and any actions taken to avoid contact with or disturbance, and a specific mitigation plan for Shortearred owls and any other species of special concern pursuant to Schedule 3 of the *Species at Risk Act* located in the local study area or along the all-weather private access road,

Commentary:

*TEMP should be a stand-alone document which provides direction and methods in regard to how the wildlife monitoring should be conducted. Baseline data collected should be submitted in the annual Wildlife Summary Monitoring Report.*

*(a) This should also be included in Wildlife Summary Monitoring Report*

*(e) See Term and Condition 33*

*(f) This should also be included in Wildlife Summary Monitoring Report. See Term and Condition 61 and 62f*

*(g) See Term and Condition 33. This should also be included in Wildlife Summary Monitoring Report*

55. Cumberland shall provide the following analysis in the March 2007 Wildlife Summary Monitoring Report:

- a. Further review and analysis of the size of the regional study area;
- b. A summary of the involvement of Inuit in the monitoring program;
- c. A detailed report of the natural variability of VECs in the region;
- d. A detailed analysis on distribution and abundance of cows, bulls, and calves;
- e. Results of the 2006 monitoring program, including field methodologies and statistical approaches used to support conclusions drawn;
- f. Any proposed changes to the TEMP survey methodologies, statistical approaches or proposed adaptive management stemming from the results of the monitoring program.

Commentary:

*See page 87 of Final Hearing Report. Annual Wildlife Monitoring results submitted must include baseline monitoring; effects monitoring; and compliance monitoring. Wildlife VECs include those assessed by Cumberland during the review*



*(e) Data includes 2006 and before*

56. Cumberland shall plan, construct, and operate the mine in such a way that caribou migration paths through the Project, including in the narrows west of Helicopter Island, are protected. Maps of caribou migration corridors shall be developed in consultation with Elders and local HTOs, including Chesterfield Inlet and placed in site offices and upgraded as new information on corridors becomes available. Information on caribou migration corridors shall be reported to the GN, KivIA and NIRB's Monitoring Officer annually.
57. Cumberland shall participate in a caribou collaring program as directed by the GN-DOE.

Commentary:

*Anticipate that a Memorandum of Understanding will be drafted between GN and MMC.*

58. Cumberland shall, in consultation with Elders and the HTOs and subject to safety requirements, design the lighting and use of lights at the mine site to minimize the disturbance of lights on sensitive wildlife and birds.
59. Cumberland shall, in consultation with Elders and the HTOs, design and implement means of deterring caribou from the tailing ponds, such as temporary ribbon placement or Inukshuks, with such designs not to include the use of fencing.
60. Whenever practical, Cumberland shall implement a stop work policy when wildlife in the area may be endangered by the work being carried out.
61. In consultation with EC, Cumberland shall incorporate into the Terrestrial Ecosystem Management Plan and the Air Traffic Management Plan a commitment for aircraft to maintain (whenever possible) a cruising altitude of at least 610 metres during point to point travel when in areas likely to have migratory birds, and 1000 metres vertical and 1500 metres horizontal distance from observed concentrations of migratory birds, and use flight corridors to avoid areas of significant wildlife importance.

Commentary:

*Condition 61 should be read together with Term and Condition 62 F. "Whenever possible" refers to take offs and landings, and is always subject to pilot discretion regarding aircraft and human safety. Significant wildlife includes ungulates, raptors, predatory mammals, and migratory birds.*

**Noise**

62. Cumberland shall develop and implement a noise abatement plan to protect people and wildlife from significant mine activity noise, including blasting, drilling, equipment, vehicles and aircraft. The noise abatement plan will be developed in consultation with Elders, GN, HC, and EC and include:
  - a. The use of sound meters to monitor sound levels in and around the mine site, including workers' on-site living /sleeping quarters and any summer camps adjacent to the site, and in the local study area, with the locations and design of the sound meters selected in consultation with HC and EC. Sound meters are to be set up immediately upon issuance of the Project Certificate for the purpose of obtaining baseline data, and monitoring during and after operations;
  - b. The establishment of strict standards for noise levels, such as the World Health Organization's Community Noise Guidelines threshold level for sleep disturbance;
  - c. Restrictions on blasting and drilling when migrating caribou, or sensitive local carnivores or birds may be affected;

- d. The use of noise attenuation devices for equipment and vehicles;
- e. The use of temporary solid fences or berms around noisy machines or sites when practical; and
- f. Require (with the exception of take off and approach for landing), a minimum flight altitude of 610 metres above ground when flights to and from the mine site are passing sensitive wildlife and bird areas.

The noise abatement plan shall be filed with NIRB's Monitoring Officer within six (6) months of the issuance of the Project Certificate.

Commentary:

*Read together with Term and Condition 61. Expect MMC to demonstrate how it intends to communicate this direction to the pilot.*

### 4.3 Socio-Economic Terms and Conditions

#### Socio-economic

63. Within six (6) months of the issuance of a Project Certificate, the GN and INAC shall form a Meadowbank Gold Mine Socio-Economic Monitoring Committee ("Meadowbank SEMC") to monitor the socio-economic impacts of the Project and the effectiveness of the Project's mitigation strategies. The monitoring shall supplement, not duplicate, the monitoring required pursuant to the IIBA negotiated for the Project, and on the request of Government or NPC, could assist in the coordination of data collection and tracking data trends in a comparable form to facilitate the analysis of cumulative effects. The terms of reference shall focus on the Project, include a plan for ongoing consultation with KivA and affected local governments and a funding formula jointly submitted by GN, INAC and Cumberland. The terms of reference shall be submitted to NIRB for review and subsequent direction within six (6) months of the issuance of a Project Certificate. Cumberland is entitled to be included in the Meadowbank SEMC.

Commentary:

*Efforts to prevent duplication shall be consistent with NLCA 12.7.5*

64. Cumberland shall work with the GN and INAC to develop the terms of reference for a socio-economic monitoring program for the Meadowbank Project, including the carrying out of monitoring and research activities in a manner which will provide project specific data which will be useful in cumulative effects monitoring (upon request of Government or NPC) and consulting and cooperating with agencies undertaking such programs. Cumberland shall submit draft terms of reference for the socio-economic monitoring program to the Meadowbank SEMC for review and comment within six (6) months of the issuance of a Project Certificate, with a copy to NIRB's Monitoring Officer.

Commentary:

*See Term and Condition 63.*

65. Cumberland shall include in its socio-economic monitoring program for the Meadowbank Project the collection and reporting of data of community of origin of hired Nunavummiut.

#### Human Health

66. Cumberland shall establish a nursing station and hire a registered on-site nurse.

Commentary:

*This condition is in addition to requirements in Section 15 of the Public Health Act.*

67. Cumberland shall develop and implement a program to monitor contaminant levels in country foods in consultation with HC. A copy of the plan shall be submitted to NIRB's Monitoring Officer.

Commentary:

*Cumberland is encouraged to consult with the Niqiit Avatittinni Committee (NAC) regarding this research. The NAC is co-chaired by INAC and the GN and includes members from NTI, ITK, and NRI*

68. Cumberland shall, in consultation with Elders, local HTOs and the Meadowbank Gold Mine SEMC, demonstrate that they are working toward incorporating Inuit societal values into mine operation policies.

**Archaeology**

69. Cumberland shall carry out the Project to minimize the impacts on archeological sites, including conducting proper archeological surveys of the Project area (including the all-weather road and all quarry sites). Cumberland shall provide to the GN an updated baseline report for archeological sites in the Project area, including:
- a. referencing of sites as directed by the GN,
  - b. the process used for age determinations of archeological sites, and
  - c. the specific measures being taken to avoid listed sites, and
  - d. the monitoring that will take place, to the GN prior to the commencement of construction.

Commentary:

*(b) Re-evaluation of currently identified archaeological sites would be expected. The definition of archaeological sites can be found in the Nunavut Archaeological and Palaeontological Site Regulation.*

70. Cumberland shall report any archeological site discovered during the course of construction, including a burial site, immediately and concurrently to the GN and KivIA. Upon discovering an archeological site, Cumberland shall take all reasonable precautions necessary to protect the site until further direction is received from the GN. In the event that it becomes necessary to disturb an archeological site, Cumberland shall consult with Elders, GN and KivIA to establish a site specific mitigation plan, and obtain all necessary authorizations and comply with all applicable laws.

Commentary:

*Consultation should include the Inuit Heritage Trust.*

## **4.4 Other Terms and Conditions**

### **Air Quality**

71. Cumberland shall, in consultation with EC, install and fund an atmospheric monitoring station to focus on particulates of concern generated at the mine site. The results of air-quality monitoring are to be reported annually to NIRB.

Commentary:

*Particulates of concern should include Total Suspended Particulates (TSP), and PM10 (Particulate Matter less than 10 microns in size) and PM2.5 (particulate matter less than 2.5 microns in size).*

72. On-site incinerators shall comply with Canadian Council of Ministers of Environment and Canada-Wide Standards for dioxins and furan emissions, and Canada-wide Standards for mercury emissions, and Cumberland shall conduct annual stack testing to demonstrate that the on-site incinerators are operating in compliance with these standards. The results of stack testing shall be contained in an annual monitoring report submitted to GN, EC and NIRB's Monitoring Officer.

73. Cumberland shall undertake to conserve the Project's use of energy, monitor the Project's greenhouse gas emissions, and continuously review and, if possible, consider for adoption new technologies to ensure greenhouse gases meet the latest Canadian standards or criteria.

Commentary:

*Function of NIRB's Monitoring Officer*

74. Cumberland shall employ environmentally protective techniques to suppress any surface road dust.

Commentary:

*CaCl is listed as a toxic substance by the Canadian Environmental Protection Act.*

**Accidents and malfunctions**

75. Cumberland shall provide a complete list of possible accidents and malfunctions for the Project. It must consider the all-weather road, shipping spills, cyanide and other hazardous material spills, and pitwall/dikes /dam failure, and include an assessment of the accident risk and mitigation developed in consultation with Elders and potentially affected communities.

Commentary:

*Refer to pg 68 of the Final Hearing Report.*

*Any Oil Handling Facility (OHF) operated by Cumberland is required to provide an Oil Pollution Emergency Plan (OPEP) dealing with contingencies for various oil spill scenarios.*

76. Cumberland shall develop an "Early Warning Monitoring Program" along the east boundary of the Project's local study area (mine and road) including the location where Third Portage Lake flows into Tehek Lake. The "Early Warning Monitoring Program" shall discuss how the communities of Baker Lake and Chesterfield Inlet will be actively involved and shall be submitted to NIRB's Monitoring Officer for review prior to Project construction. If adverse effects from the project to any VEC are detected along this boundary, then Cumberland shall notify the NIRB's Monitoring Officer for determination as to whether and to what extent additional monitoring is required.

Commentary:

*The Early Warning Monitoring Program applies to all VECs*

77. Cumberland shall as soon as possible, review and coordinate its Emergency Response Plan with the emergency response plans of the Hamlets of Baker Lake and Chesterfield Inlet.

**Abandonment and Reclamation**

78. Cumberland shall file a complete Closure and Reclamation Plan developed to comply with INAC's policy of full cost of restoration and any related NWB requirements such that the Inuit and taxpayers are not liable for any cost associated with the cleanup, modification, decommission, or abandonment.
79. In addition to the NWB's requirements, the final Closure and Reclamation Plan shall require Cumberland to:
- a. Ensure that mine facilities and infrastructure are abandoned in such a manner that:
    - i. The Project site is physically stable and any requirements for long term maintenance and monitoring are minimized;
    - ii. Threats to public safety and wildlife are eliminated; and
    - iii. Affected areas are returned to the original undisturbed conditions to the fullest extent possible.
  - b. Prevent continuing impacts from contaminants and wastes on the environment including those associated with acid rock drainage;
  - c. Remove all hazardous materials and waste and as much salvageable waste as practicable from the Project area; and
  - d. Enter into written arrangements with its abandonment and reclamation contractors to ensure all site debris is cleaned up off the lands, including wind-blown debris.
80. Cumberland shall file annually with NIRB's Monitoring Officer an updated report on progressive reclamation and the amount of security posted, as required by KivIA, INAC, and/or the NWB.

#### **Other**

81. Beginning with mobilization, and for the life of the Project, Cumberland shall provide full 24 hour security, including surveillance cameras and a security office at the Baker Lake storage facility/marshalling area, and take all necessary steps to ensure the safe and secure storage of any hazardous or explosive components within the Hamlet of Baker Lake boundaries.
82. Cumberland shall monitor the ingress/egress of ship cargo at Baker Lake and report any accidents or spills immediately to the regulatory agencies as required by law and to NIRB's Monitoring Officer annually.

#### **Commentary:**

*Ingress/egress of ship cargo is not monitored by Transport Canada - Marine Safety (MS). MS requires reports from any Oil Handling Facility operated by Cumberland. MS would deal directly with the Shipper on issues relating to accidents and spills.*

83. Cumberland shall ensure that the explosive mix-truck is only used to mix diesel and ammonia nitrate to form an explosive only at the blast site, and that when the explosive mix-truck is not in use it is stored with the strictest setback requirements as required or recommended by NRCan.
84. To the extent permitted by the IIBA, and when the assets are no longer required by Cumberland, Cumberland shall offer the Hamlet of Baker Lake the first right of refusal to purchase salvageable mine assets located within the Hamlet of Baker Lake boundaries.

85. Cumberland shall develop a detailed blasting program to minimize the effects of blasting on fish and fish habitat, water quality, and wildlife and terrestrial VECs. The Blasting Program shall be developed in consultation with the DFO and GN, and shall:
- a. comply with the *Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters* (Wright and Hopky, 1998) as modified by the DFO for use in the north;
  - b. including a monitoring and mitigation plan to be developed in consultation with the DFO, and obtain DFO approval of the blasting program prior to the commencement of blasting;
  - c. restrict blasting when migrating caribou, or sensitive local carnivores or birds may be negatively affected; and
  - d. minimize the use of ammonium nitrate to reduce the effects of blasting on receiving water quality.

**Duty to Comply**

86. Cumberland shall comply with all Terms and Conditions of this approval, and any non-compliance constitutes a violation of the approval and is grounds for NIRB's reconsideration and recommendation to the Minister under Article 12, Part 8 of the NLCA.

# Appendix A

## List of Commitments

## List of Commitments from Final Hearing

No.	Commitment	Timing
1	Commit to re-run model for a sensitivity analysis on total dissolved solids concentration in pit waters	Construction
2	Commit to resample groundwater monitoring wells in summer 2006	Underway
3	Commit to considering capping Vault pile with fine grain material and/or establish corridors for wildlife	Operations / Closure.
4	Commit to identifying mitigation measures if groundwater contamination (tailings) has occurred during operation. Include what triggers would be used in this evaluation	Operations
5	Commit to assessing permeability of fault upon drawdown of North arm of Second Portage Lake and commit to establishing trigger levels and mitigation strategies	Construction / Operations
6	Compile a technical memo that addresses "Accidents and Malfunctions" resulting from catastrophic events	Draft Submitted
7	Monitor the accuracy of predictions of the impact of road on wolverine and bears	Operations
8	Adaptive road management plan that considers the all wildlife mortality incidents	Construction / Operations
9	Include in next Wildlife Monitoring summary report (March 2007)	Construction
	<ul style="list-style-type: none"> <li>• Review and evaluation of size of RSA</li> <li>• Report of the natural variability of VECs</li> <li>• Detailed analysis of distribution and abundance of cows, bulls and calves to distinguish between potentially different groups of caribou</li> </ul>	
10	Issue a revised TEMP document which will provide more detailed information on the following	Fall / Winter 2006
	<ul style="list-style-type: none"> <li>• Study used determine effects on ungulate populations from the increased human access caused by the all-weather road</li> <li>• Collaring study and cooperative agreement between DOE, CRL and other studies proposed</li> <li>• Investigative tools used to conduct monitoring surveys prior to construction</li> </ul>	
11	Provide details on statistical approach and validation to support conclusions drawn from monitoring impacts on wildlife	Fall / Winter 2006
12	Participate in socio-economic monitoring programs that will be developed in collaboratively by the RMMC	Underway / Ongoing
13	Develop a wellness monitoring plan for Baker Lake and other communities that might be impacted by the project. The geographic scope of wellness monitoring to be defined at that time	Construction / Operations
14	Work with INAC and other interested parties to develop details of all-weather road management plan	During Lease Application (KIA/GN/INAC)
15	Update of Access and Air Traffic Management Plan to incorporate adaptive management practices	Construction / Operations
16	Effectively communicate to community of Baker Lake the private nature of the road and inform residents of CRL road-use restrictions	Construction
17	Effectively communicate CRL road-use policy to community of Baker Lake	Construction
18	Observe, collect and maintain information on road-use to facilitate monitoring of the nonproject uses of the road	Operations
19	Consult with stakeholders and update its reclamation and closure plan with the final design for decommissioning once this information becomes available	Operations
20	Should CRL maintain or operation the road beyond the current proposal, INAC suggests a subsequent environmental assessment may be required	Closure
21	Track the community of origin of hired Nunavimmiut to direct monitoring and follow-up activities	Operations
22	Consider adaptive monitoring and mitigation measures for communities other than Baker Lake should these be substantially affected by the Project	Operations



## List of Commitments from Final Hearing

No.	Commitment	Timing
23	Data collected during normal mine operation will be gathered and reported in a form that is compatible with socio-economic project monitoring	Operations
24	Submit complete Spill Contingency Plan to EC for review, once available. This plan will address the concerns of the residents of Chesterfield inlet	Once Shipper Hired
25	Follow DFO recommendations on the design of water course crossings to minimize impacts to fish and fish habitat (March 10, 2006 letter from DFO)	Detailed Engineering
26	Engage local HTO in the development, implementation and reporting of creel surveys within water bodies affected by the project	Operations
27	Provide clarification on what vessels will marine mammal monitors be allowed to board	Completed
28	Notify Navigable Waters Protection Program to assess the navigability of additional water crossings, if any, along the all-weather route	Detailed Engineering
29	Engage in discussions with representatives of the Canadian Coast Guard to reassess where response and spill kits are presently located within Nunavut , and not put the onus on TC for placing community spill kits in the Hamlets of Chesterfield Inlet and Baker Lake	Operations
30	Identification of the proper Transport Canada branches and other federal government departmental responsibilities will be specified where appropriate	Operations
31	Monitoring of caribou within the study area be completed on a monthly basis once all-weather road is completed	Operations
32	Notify the Department of Land and Resources of any changes in the proposed project	Detailed Engineering / Construction
33	Only a Transport Canada Certified Shipper will be hired to carry Cumberland's supplies	Construction / Operations
34	The shipping company will have spill equipment on board with crew trained to deploy the equipment	Construction
35	The Coast Guard will be notified as soon as a spill has occurred and, if required, will provide further spill support	Construction / Operations
36	Once the shipping company is hired, the shipper and Cumberland will return to Chesterfield Inlet for a one-day workshop to more fully discuss the successful companies' procedures, type of ships, spill equipment, etc.	Construction
37	Cumberland will place a local monitor from Chesterfield Inlet on ships carrying fuel for the Meadowbank project	Construction / Operations
38	Cumberland will request that the shipping company contracted to carry fuel for the project carry out practice drills deploying their spill equipment in various locations within the inlet	Construction / Operations
39	In addition to the initial TK information currently being gathered by Andrea Tautu of the HTO on cabins and hunting areas, Cumberland will conduct a one-day workshop to more fully gather TK relating to local activities in the inlet	Construction
40	In addition to the local monitor, captains will follow the following mitigation procedures in the event that marine mammals are in the vicinity of the shipping activities – Operations:	Construction / Operations
41	i) Wildlife will be given right of way. ii) Ships will maintain a straight course, constant speed, and will avoid erratic behaviour. iii) When marine mammals appear to be trapped or disturbed by barge/ship movements, the barge/ship will stop until the mammals have moved away from the area.	
41	Cumberland and the Shipper will carry shipping insurance	Construction / Operations
42	Cumberland will conduct annual community consultation visits in Chesterfield to report on the project and related shipping activities and to hear any concerns/comments from Chesterfield Inlet residents	Operations

## List of Commitments from Final Hearing

No.	Commitment	Timing
43	Re-do WQ modeling with less conservative assumptions: no rock wetting factors, no permafrost, use 1-kg IV rather than 100-kg IV rates for poor-end; used 100-kg for best estimate; higher temperature of soil to air by 4.4oC; long-term WQ w global warming; minimal improvement to WQ from UM cover (not automatic transition)	Detailed Engineering / Operations
44	Additional Field and lab analysis of WR to segregated PAG and non-PAG rock	Operations
45	Diffuser design and impact of effluent on receiving environments	Detailed Engineering
46	Adaptive management of (placement of) mine waste material considering monitoring results obtained during operation	Operations
47	Confirmatory sampling of Road alignment rock and pre-approval of ARD criteria	Detailed Engineering
48	Detailed plans for water treatment	Operations
49	Evaluation of viability of proposed in-situ and active treatment system and subsequent effects of effluent to receiving environment (near and far-field)	Operations
50	Re-evaluate model using 2003 and 2004 groundwater data	Detailed Engineering
51	Replace defective wells and conduct 3 to 4 semi-annual groundwater monitoring rounds	Underway
52	After 1 year of additional data collection (in 2007) re-evaluate water quality (model) to compare to actual performance once mine start up	Construction
53	1.1 Reconsider ARD screening criteria and include regulators in approval of ratios/guidelines as warranted	Detailed Engineering
54	1.2 Long-term chemical stability (metal leaching) of UM rock	Operations
55	1.4 revise water balance and water quality predictions. Measures to monitor and confirm predictions, trigger for mitigation	Detailed Engineering
56	1.5 operational criteria for waste management and use of WR	Operations
57	1.6 provide/develop summary of treatment needs	Detailed Engineering
58	1.7 effluent plume delineation (near-field) modeling and revised WQ predictions	Detailed Engineering
59	1.9 Monitoring of all-weather road rock quality, ARD/ML potential	Operations
60	1.10 Continued geochemical characterization (laboratory and filed tests) of UM, PAG and uncertain PAG rock and input into adaptive waste management plan	Operations / Closure
61	Lake bed sediment samples to be collected and analyzed for geotechnical properties	Detailed Engineering
62	Review tailings and waste management alternatives including climate change, conduct gap analysis to determine deficiencies required for engineering and construction of dikes	Detailed Engineering
63	Consolidate Tailings management alternatives assessment into one document	Detailed Engineering / Construction
64	Perform a technical review of dewatering dikes	Detailed Engineering
65	Carry out coupled seepage-thermal and solute transport modeling including Second Portage lake fault zone	Detailed Engineering / Construction
66	Revise the No Net Loss plan to address specific requirements related to the scheduling the northwest arm of Second Portage Lake as a Tailings Impoundment Area	Detailed Engineering / Construction
67	Investigate additional "A" and "B" list compensation options during summer 2006	Detailed Engineering / Construction
68	Incorporate hydrology information at fish bearing stream crossings into detailed design of bridges and culverts along the all-weather road	Detailed Engineering
69	Provide detailed engineering of water intake pipe to avoid fish habitat disturbance along the shoreline	Detailed Engineering
70	Prepare and implement Incinerator Waste Management Plan	Construction / Operations

## List of Commitments from Final Hearing

No.	Commitment	Timing
71	Develop Energy Conservation Plan	Construction / Operations
72	Incorporate the Government of Nunavut Dust Suppression Guidelines issued under the Environmental Protection Act to Cumberland Air Quality Management Plan	Construction / Operations / Closure
73	Conduct annual incinerator stack emission monitoring for mercury, dioxins and furans and report results to Environment Canada and Government of Nunavut	Construction / Operations
74	Provide annual report of the quantity and type of waste generated at the mine site distinguishing landfilled, recycled and incinerated streams	Construction / Operations
75	Reassess the selection of incinerators and justify the decision in regards to best available economically feasible technologies (BAEFT)	Detailed Engineering / Construction
76	Provide a list of all personnel trained to operate the incinerator	Construction / Operations
77	Install and operate two particulate samplers at the project site and report annually monitoring results conforming to detailed reporting protocol	Construction / Operations
78	Perform sound level monitoring twice a year and document results	Construction / Operations
79	Justification for existing RSA	Fall / Early Winter
80	Elaboration of threshold mortality levels of "1" for Grizzly Bear, Wolverine, Caribou and Muskox, and commitment to report any mortalities of the above species immediately and enact adaptive mitigation measures immediately	Fall / Winter 2006
81	Details of hunter harvest study	Fall / Winter 2006
82	Discussion of aircraft over-flight height limits (610 m for point to point; 1000m vertical and 1500m horizontal for concentrations) and proposed efforts to monitor impacts of air traffic at mine site on wildlife	Detailed Engineering
83	Methodology of all monitoring programs including satellite-collaring	Fall / Winter 2006
84	Description of statistical approach, power and capability	Fall / Winter 2006
85	Details on revegetation monitoring post-closure including commitment to initiate revegetation trials as early as possible	Fall / Winter 2006
86	Management approach to waste rock piles and quarry sites	Fall / Winter 2006
87	Elaboration of environmentally sensitive times for blasting	Fall / Winter 2006
88	Map of Key Migratory Bird Site and commitment to avoiding disturbance between mid-June and late-August	Fall / Winter 2006
89	Commitment to collecting and analyzing waterfowl data from monitoring surveys, particularly from aerial surveys of RSA	Construction / Operations
90	Commitment to conducting breeding bird surveys annually during construction phase and at least the first three years of operation	Construction / Operations
91	Elaboration of mitigation measures to reduce denning, roosting, and nesting sites for avian predators and Arctic foxes	Fall / Winter 2006
92	Information on management approach for Short-eared Owl	Fall / Winter 2006
93	Program details of Inuit monitors on barges/ships	Detailed Engineering
94	Methodology for interviewing elders and hunters annually – traditional knowledge workshop	Detailed Engineering
95	Commitment to annual reports summarizing: a) information from traditional knowledge workshop; b) government population and harvest data; and c) on-board Inuit observation and encounter reports	Detailed Engineering
96	Analyses of natural environmental changes	Construction
97	Discussion of caribou data distinguishing between sex and age	Construction
98	Analysis of waterfowl data collected on aerial and other surveys	Construction

## List of Commitments from Final Hearing

No.	Commitment	Timing
99	Analysis of breeding bird plot and transect survey data	Construction
100	Cumberland, in the FEIS and the letter to INAC in early March, had undertaken to participate with other interested parties in collaborative socio-economic monitoring, specifically focusing on issues related to individual and community wellness. This monitoring will be outside the IIBA, and is similar in concept to that agreed for the Jericho and Doris North projects. Cumberland has agreed with INAC, as a commitment, that Cumberland will initiate a process to agree on objectives, scope, terms of reference and roles and responsibilities for this monitoring before the issuance of any project certificate, with a goal of achieving agreement within six months of the issuance of any project certificate	Underway
101	Cumberland agrees with INAC that labor force adjustments, the transition to full time wage employment and the relationship between economic growth and community wellness are issues that should be included in socio-economic monitoring	Underway
102	Cumberland has agreed with INAC, as a commitment, to include pre employment orientation for potential hires by Cumberland in the Labor Force Development Plan that will be developed under the terms of the IIBA. This commitment is in recognition that it is in the interests of both potential hires and Cumberland to ensure to the extent practicable that potential hires are well informed of the implications (nature of the work, workforce management, personal and family challenges etc.) of accepting employment with Cumberland	Construction / Operations
103	Cumberland, in the FEIS and the letter to INAC in early March, had undertaken to participate with other interested parties in collaborative socio-economic monitoring, specifically focusing on issues related to individual and community wellness. This monitoring would be outside the IIBA, and is similar in concept to that agreed for the Jericho and Doris North projects. Cumberland has agreed with GN, as a commitment, that Cumberland will initiate a process to agree on objectives, scope, terms of reference and roles and responsibilities for this monitoring before the issuance of any project certificate, with a goal of achieving agreement within six months	Underway
104	Cumberland agrees with GN that labor force adjustments, any pressures on physical and social infrastructure (including by emergency response planning), socio-economic impacts of public use of the access road, and community physical and mental health are issues that should be included in socio-economic monitoring	Underway
105	Cumberland also agrees with GN that consultation and traditional knowledge will be integral to socio-economic monitoring methodologies	Underway
106	Cumberland also agrees that socio-economic monitoring results will be used to make recommendations to participating parties on measures to address identified community wellness challenges. This would include recommendations for action by Cumberland where monitoring results indicate negative relationships between community wellness indicators and the project and/or opportunities for enhancing project benefits	Underway
107	Cumberland commits to engage throughout the life of the project with the GN Department of Education in Baker Lake on	Construction / Operations
	<ul style="list-style-type: none"> <li>o Cumberland's provision of opportunities for training and education including under the Apprenticeship, Trade and Occupations Certification Act</li> <li>o The working relationship between the Department of Education and Cumberland as this relates to Cumberland's training programs for its workforce</li> <li>o Information exchange on workforce preparation requirements</li> <li>o Cumberland's commitment under the IIBA to provide supervisory and management training</li> <li>o Cumberland's commitment under the IIBA to provide initiatives specific to youth</li> </ul>	
108	Information made available by or to Cumberland under the terms of the IIBA in the areas of support to businesses in accessing project opportunities will be forwarded to the GN	Construction / Operations
109	Cumberland commits to discussions with the GN Petroleum Products Division at least annually for the purpose of planning project jet fuel requirements	Construction / Operations

## List of Commitments from Final Hearing

No.	Commitment	Timing
110	Cumberland commits to engage throughout the life of the project with the GN Department of Health and Social Services on	Construction / Operations / Closure
	<ul style="list-style-type: none"> <li>o Cumberland's activities covered by all relevant health legislation, including health legislation relevant to operating mines with more than 50 employees</li> <li>o Cumberland's commitment under the IIBA to develop the annual Baker Lake Wellness Report and Implementation Plan</li> </ul>	
111	Cumberland's commitment under the IIBA to provide employment support including counseling workshops and programs	Construction / Operations
112	Cumberland undertakes to develop an operational plan for the road which ensures maintenance of its status as a private road. Cumberland will develop this plan in collaboration with INAC, KIA, NTI, GN, and the Baker Lake HTO and Hamlet council	Construction / Operations
113	Commitment to reassess archeology sites	Detailed Engineering

Appendix B  
List of Legislation and Authorizations

### List of applicable Legislation and Authorizations required for the Meadowbank Gold Mine Project

This may or may not include all of the applicable authorization required for this project

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
<b>Federal (Canada)</b>					
Arctic Waters Pollution Prevention Act (AWPPA)	TC - Marine Safety	Arctic Waters Pollution Prevention Regulations	<ul style="list-style-type: none"> <li>• Compliance</li> <li>• Arctic Waters Pollution Prevention Certificate (non-mandatory)</li> <li>• Inspection</li> <li>• Plan approvals</li> </ul>	TC - Marine Safety	Some aspects of a ship's construction, its equipment, its crew and its operation are regulated and subject to inspection and/or audit.
	Transport Canada – Marine Safety	Arctic Waters Pollution Prevention Regulations	N/A	Transport Canada – Marine Safety	The deposit of waste of any type in the arctic waters or in any place on the mainland or islands of the Canadian arctic under any conditions where the waste or any other waste that results from the deposit of the waste may enter the arctic waters.
Aeronautics Act	Transport Canada – Civil Aviation	Canadian Aviation Regulations (CAR)	Civil Aviation Documents - An aerodrome at this site would be subject to complying with CAR 301 and Transport Canada may conduct on-site inspections to this regard. All aircraft operations are also regulated by various sections of the CARs and are subject to periodic inspections by	Transport Canada - Civil Aviation	All aviation related activities including airspace issues and aircraft, flight crew and aerodrome operations. This oversight occurs independent of projects such as mining and exploration and does not need to be included as part of the authorization process for this or other similar projects.

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
			TC whether or not they are involved with this project.		
Canadian Environmental Protection Act, 1999 (CEPA)	Environment Canada	<p><b>Fuel Storage</b>                      - Federal Registration of Storage Tank Systems for Petroleum Products and Allied Petroleum Products on Federal Lands or Aboriginal Lands Regulation  <b>Fuels</b>                      - Sulphur in Diesel Regulations                      - Fuels Information Regulations No 1                      - Sulphur in Gasoline Regulations                      - Benzene in Gasoline Regulations  <b>Hazardous Waste</b>                      - Interprovincial Movement of Hazardous Waste Regulation  <b>Halocarbons</b>                      - Federal Halocarbon Regulations  <b>- National Pollutant Release Inventory (NPRI)</b></p>	<p><b>Fuel Storage</b> - INAC Land Lease  <b>Other regulations</b> – no permit/authorization</p>	<p><b>Fuel Storage</b>                      – Tanks are registered with INAC and INAC provides the list of registered tanks to EC annually.                       For all other regulations - EC</p>	<p><b>Fuel Storage</b> - Registration of fuel storage tanks  <b>Fuels</b> –                      The Fuel Regulations only apply fuel is imported from an international source  <b>Hazardous Waste</b> -                      The transport of hazardous waste within Canada  <b>Halocarbons:</b>                      - the release of a halocarbon that is contained in a refrigeration system or an air-conditioning system, or any associated container or device                      - The installation of a system that operates or is intended to operate with a halocarbon listed in any of items 1 to 9 of Schedule 1                      - The storage, transport or purchase of a halocarbon unless it is in a container designed and manufactured to be refilled and to contain that specific type of halocarbon, unless it is used as laboratory analytical standards or laboratory reagents.  <b>National Pollutant Release Inventory</b> -                      For companies that manufacture, process or otherwise use one of the 268 substances listed on the inventory, and meet the reporting thresholds, the annual reporting of releases or transfers.  <b>Environmental Emergencies</b></p>



Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
		<b>- Environmental Emergencies Regulations</b>			For toxic and hazardous substances at or above the specified thresholds, the provision of information on their quantities and the preparation and implementation of environmental emergency plans.
Canada Shipping Act	TC - Marine Safety	Various Regulations under the CSA	<ul style="list-style-type: none"> <li>• Compliance</li> <li>• Inspection</li> <li>• Plan approvals</li> </ul>	TC – Marine Safety	Some aspects of a ship's construction, its equipment, its crew and its operation are regulated and subject to inspection and/or audit
Explosives Act	Natural Resources Canada, Explosives Branch	Explosives Regulations	Explosives Factory Licence; Temporary Explosives Factory Licence	Explosives Regulatory Division	Operation of proposed explosives mixing and/or packaging facilities and magazines and support facilities to be included in the explosive factory licence at the mine site and the temporary factory licence at Baker Lake.
Fisheries Act	Fisheries and Oceans Canada	Metal Mining Effluent Regulations	N/A	Environment Canada / DFO	Discharges from TIA must comply with discharge criteria in MMER / DFO enforces habitat compensation provisions MMER
	DFO	Sections 32 and 35	Authorization	DFO	Destruction of fish by means other than fishing and Harmful alternation, disruption or destruction of fish habitat respectively.
	DFO	Metal Mining Effluent Regulations	Regulatory amendment	EC/ DFO*	Deposit of a Deleterious Substance – specifically tailings. *enforcement of habitat compensation is with DFO – other enforcement of the regulation is with EC.
Migratory Birds Convention Act	Environment Canada	Migratory Birds Regulations	N/A	Environment Canada	Violations under MBCA and MBCA Regulations - Section 6 of the Regulations prohibits the disturbance, destruction, taking of a nest, egg, or nest shelter of a migratory bird or to be in possession of a live migratory bird, carcass, skin, nest or

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
					egg of a migratory bird, except under the authority of a permit. - Section 35 of the Regulations prohibits the deposition of oil, oil wastes or any other substance harmful to migratory birds in any waters or any area frequented by migratory birds.
Navigable Waters Protection Act (NWPA)	Transport Canada - Navigable Waters Protection Program (NWPP)	Sections 5 (1) & 5 (2), Section 22 & 23 of the NWPA	Approvals, Promulgations, and Exemptions	Transport Canada (NWPP)	Various Works under the Act.
Nunavut Act		Nunavut Archaeological and Palaeontological Site Regulations	Permit	Department of Culture, Language, Elders and Youth	Any planned archaeological/palaeontological work and any accidental disturbances to archaeological/palaeontological sites
Nunavut Waters and Nunavut Surface Rights Tribunal Act	INAC	NWT Water Regulation	Nunavut Water Board Water License	INAC	Terms and conditions of the Water License
Species at Risk Act	Environment Canada	N/A	N/A	- Migratory birds: Environment Canada - Fish and marine mammals: DFO - Species	SARA includes general prohibitions against: - The killing, harming, harassing of listed extirpated, threatened or endangered species or their residences - The damage or destruction of the residences of individuals of an endangered or threatened species, or of an extirpated species where its reintroduction into the

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
				within National Parks: Parks Canada	wild has been recommended, and -The destruction of critical habitat of an extirpated, threatened or endangered species, as defined in a recovery strategy or action plan.  How and when these prohibitions apply will depend on the type of species (e.g. aquatic species, migratory bird), its status designation (e.g., threatened, endangered) and where it is located (e.g., lands under the authority of the Minister of the Environment or the Parks Canada Agency, other federal lands).
Canadian Transportation Act					
Territorial Lands Act	INAC	Territorial Lands Regulation	Surface Land Lease and Quarry Permit	INAC	Surface Land Lease (Terms and conditions), Quarry Permit (Terms and Conditions)
<b>Territorial (Nunavut)</b>					
Transportation of Dangerous Goods Act	Economic Development & Transportation	Transportation of Dangerous Goods Regulations	Permit where applicable	Economic Development & Transportation	-Transportation of dangerous goods on a highway
	TC-Marine Safety	Transportation of Dangerous Goods Regulations	<ul style="list-style-type: none"> <li>• Compliance</li> <li>• Inspection</li> <li>• Plan approvals</li> </ul>	TC – Marine Safety	Some aspects of a ship’s construction, its equipment, its crew and its operation are regulated and subject to inspection and/or audit

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
Environmental Protection Act	Environment	Spill Contingency Planning and Reporting Regulations	Approval	Environment	-Approve spill contingency plans
Explosives Use Act	Workers Compensation Board	Explosives Use Regulations	Permit	Mine Inspectors	Ensuring blasters are certified
Pesticide Act	Environment	Pesticide Regulations	Pesticide Business Permit	Environment	-Any businesses shall apply for the permit before application of pesticide.
Mine Health and Safety Act	Workers Compensation Act	Mine Health and Safety Regulations (see Note 1 below)	Permit/Certification to supervisors/blasters hoist operators	Mine Inspectors	Mine Health/Safety through inspections and enforcement
Scientist Act	Nunavut Research Institute	None	Scientific Research License	Nunavut Research Institute	-Any research related activities except in the area about wildlife should obtain the license from NRI.
Wildlife Act	Environment	-Birds of Prey Regulations -Certification and Disposal of Wildlife Regulations -Polar Bear Defense Kill Regulations -Wildlife Licenses and Permits Regulations	Wildlife Research Permit	Environment	-Any bear kills need to be reported to DOE wildlife officers. -Any terrestrial wildlife related monitoring and research need to obtain permits from DOE.
Workers Compensation Act	Workers Compensation Board	Workers' Compensation Act, including Regulations	None	WCB Registrars/ Entitlement Officers	Prompt reporting of accidents and injuries within 3 days if time loss claim or medical attention sought
Public Health Act	H&SS	1) Act: ss 14-18 2) Camp Sanitation Regulations	Inspection  (Employers with >50		1) Appropriate health services available on site 2) Minimizing risk to human health

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
		3) Communicable Disease Regulations 4) Eating or Drinking Places Regulations	employees must provide physician service on contract)		3) Promote good population health 4) Minimizing risk to human health
Emergency Medical Aid Act	H&SS				Allows non-professionals to render first aid
Hospital Insurance and H&SS Administration Act	H&SS		1) Inspection 2) Inter-provincial billing agreements	Nunavut Health Insurance Program	Costs incurred by OOT clients in Nunavut are properly reimbursed
Child and Family Services Act	H&SS		Inspection and/or investigation	Director of Children & Family Services	Child welfare
Electrical Protection Act	Community & Government Services	Electrical Protection Regulations	Electrical Permit	Community & Government Services	- Safety precaution
The Safety Act	Workers Compensation Board	General Safety Regulations	None	Safety Officers	Workplace safety through inspections and enforcement
Commissioners Land Act	Community & Government Services	Commissioner's Airport Lands Regulations, Commissioner's Land Regulations	All activity on lands within Nunavut falls under Nunavut's legislation	Community & Government Services	- Administration of Commissioner's Lands
Boilers and Pressure Vessels Act	Community & Government Services		Boiler Permit	Community & Government Services	- Safety precaution
Gas Protection Act	Community & Government	Gas Protection Regulations	If Propane is on site. Installation must be	Community & Government	- Safety precaution

<b>Statute</b>	<b>Responsible Agency for Statute</b>	<b>Regulation</b>	<b>Authorization Instrument (Permit/License/ Approval)</b>	<b>Responsible Enforcement Agency</b>	<b>Activity being Enforced</b>
	Services		approved by Protection Services	Services	
Apprenticeship, Trades and Occupations Certification Act	Education	Apprenticeship, Trade and Occupations Certification Regulations	Certificate	Education	-Certification of Apprentices and Trades Qualifications
Liquor Act	Finance	Liquor Regulations	Permit where applicable	Finance	-Charges for non-compliance
Fire Prevention Act	Community & Government Services	Fire Prevention Regulations	Submit all plans to the office of the Fire Marshal for approval before permit to build can begin.	Community & Government Services	- Ensure all plans are up to code

Appendix C  
Regulatory Involvement with  
Conditions and Commitments

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
<b>PROPONENTS COMMITMENTS</b>						
1	The commitments in this Final Hearing Report as Appendix A: Cumberland's Commitments from the Final Hearing, are incorporated herein and must be met. In the event of a conflict between Appendix A and the Terms and Conditions of the Project Certificate, the Terms and Conditions of the Project Certificate prevail.					
<b>NIRB'S COMMITMENTS</b>						
2	NIRB will appoint a Monitoring Officer to monitor the Meadowbank Project in accordance with the purpose of a monitoring program pursuant to section 12.7.2 of the NLCA for the full life of the Meadowbank Project, including abandonment and restoration. Subject to direction from NIRB, the responsibilities of the NIRB Monitoring Officer are not to duplicate the IIBA and will include: a. giving direction to regulatory agencies, Cumberland and the Meadowbank Gold Mine Socio-economic Monitoring Committee to supply NIRB with reports and information respecting the Project's operations and impacts and the implementation of mitigative measures; b. conducting a periodic evaluation of the Project monitoring program; c. compiling a report on the adequacy of the monitoring program and on the ecosystemic and socio-economic impacts of the Project; and d. where appropriate, recommending to NIRB reconsideration of Terms and Conditions in accordance with section 12.8.2 of the NLCA.				INAC-Peter Kusugak (Item A), Robyn Abernethy-Gillis and JF Beauchesne	
<b>REGULATORY REQUIREMENTS (GENERAL)</b>						
3	Cumberland must obtain all required federal and territorial permits and other approvals, and shall comply with the requirements of such regulatory instruments.	INAC- Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and water Licence (INAC - Water Resources)	INAC-Territorial Lands Act, Territorial Lands Regulations, Territorial Quarrying Regulations and INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC-Spencer Dewar and Peter Kusugak	
		NRCan, Explosives Act, temporary explosives factory licence, explosives factory licence	NRCan, please see <a href="http://www.nrcan-nrcan.gc.ca/mms/explosif/licen/licen_e.html">http://www.nrcan-nrcan.gc.ca/mms/explosif/licen/licen_e.html</a> for guiding documents		Neil Maclean, Explosives Branch, NRCan, 1431 Merivale Road, Ottawa, ON, K2E 1B9, 613-948-5177. neil.maclea@nrcan.gc.ca	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		DFO - Fisheries Act Authorizations under, section 30, ss. 35(2) and section 32; and Amendment to the Metal Mining Effluent Regulations issued pursuant to S. 36(5)	Policy for the Management of Fish Habitat, Guidelines for the use of Explosives in our near Canadian Fisheries Waters, Freshwater Intake End-of-Pipe Fish Screen Guideline			



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4	Cumberland shall take prompt and appropriate action to remedy any non-compliance with environmental laws and regulations and/or regulatory instruments, and shall report any non compliance as required by law immediately and report the same to NIRB annually.	INAC-Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and water Licence (INAC - Water Resources)	Territorial Lands Act, Territorial Lands Regulations, Territorial Quarrying Regulations and INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC - Peter Kusugak, Spencer Dewar (advisory) and Jim Rogers (advisory)	
		NRCAN, Explosives Act, temporary explosives factory licence, explosives factory licence	NRCAN, please see <a href="http://www.nrcan-mcan.gc.ca/mms/explosif/licen/licen_e.html">http://www.nrcan-mcan.gc.ca/mms/explosif/licen/licen_e.html</a> for guiding documents		Neil Maclean, Explosives Branch, NRCAN, 1431 Merivale Road, Ottawa, ON, K2E 1B9, 613-948-5177. neil.macleam@nrcan.gc.ca	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		EC-Section 36(3) of Fisheries Act, MMR, Migratory Bird Convention Act and Migratory Bird Regulations, CEPA	N/A	N/A	N/A	
		DFO - Fisheries Act Authorizations under, section 30, ss. 35(2) and section 32; and Amendment to the Metal Mining Effluent Regulations issued pursuant to S. 36(5)	Policy for the Management of Fish Habitat, Guidelines for the use of Explosives in our near Canadian Fisheries Waters, Freshwater Intake End-of-Pipe Fish Screen Guideline			
5	Cumberland shall meet with respective licensing authorities prior to the commencement of construction to discuss the posting of adequate performance bonding. Licensing authorities are encouraged to take every measure to require that sufficient security is posted before construction begins. This bonding should not duplicate other amounts of security required (eg. the NWB).	INAC- Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and water Licence (INAC - Water Resources)	Territorial Lands Act, Territorial Lands Regulations, Territorial Quarrying Regulations and INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC - Spencer Dewar and Jim Rogers	
		NRCAN, Explosives Act, temporary explosives factory licence, explosives factory licence			Neil Maclean, Explosives Branch, NRCAN, 1431 Merivale Road, Ottawa, ON, K2E 1B9, 613-948-5177. neil.macleam@nrcan.gc.ca	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	

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		DFO - Yes - security bonding for habitat compensation and monitoring			Tania Gordanier - DFO	
<b>MONITORING RECORDS</b>						
6	All monitoring information collected pursuant to regulatory requirements for the Meadowbank Project shall contain the following information: a. The person(s) who performed the sampling or took the measurements including any accreditations; b. The date, time and place of sampling or measurement, and weather conditions; c. Date of analysis; d. Name of the person(s) who performed the analysis including accreditations; e. Analytical methods or techniques used; and f. Results of any analysis.	GN-no	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Nunavut Waters and Nunavut Surface Tribunal Act and NWT Water Regulations(INAC - Water Resources)			INAC - Jim Rogers (advisory) and Peter Kusugak	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
7	Cumberland shall keep and maintain the records, including results, of any monitoring, data, or analysis, for a minimum of the life of the Project, including closure and post-closure monitoring. This time period shall be extended if requested by NIRB, GN, INAC, DFO, EC or the NWB.	GN-no	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Water License (INAC - Water Resources) and Quarry Permits (INAC - Lands Administration)			INAC - Jim Rogers and Spencer Dewar	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		EC-MMER - All records, books of account or other documents relating to MMER monitoring must be kept at the mine's location by the owner/operator for a period of not less than five years, beginning on the day they are made.	EC Advisory- reiew of the results of water quality monitoring, air quality monitoring, migratory birds monitoring, and monitoring for species at risk under EC's jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
<b>WATER QUALITY AND WASTE MANAGEMENT</b>						
<b>GENERAL</b>						

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8	Cumberland shall, within 30 days of re-opening of the camp, re-sample existing groundwater monitoring wells and combining the sampling data with existing rounds of groundwater sampling data, re-evaluate the salinity, major ion concentrations, and dissolved metal load of groundwater flowing to the mine pits and incorporate the results into the water quality monitoring and treatment program. At the time samples are taken Cumberland shall also assess the condition of existing groundwater monitoring wells and replace any defective wells. Cumberland shall continue to undertake semi-annual groundwater samples and re-evaluate the groundwater quality after each sample collection. Cumberland shall report the results of each re-evaluation to NIRB's Monitoring Officer, INAC and EC, and incorporate the results of the additional data into the water license application to the NWB.	GN - Environmental Protection Act (EPA)	GN-Yes; Contaminated site remediation guideline under EPA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C50, C51, C52, C1, C2
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of groundwater quality data, revised water quality model and water quality treatment program	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
9	Cumberland shall provide detailed plans for water treatment for the tailings (reclaim pond) discharge, and on a contingency basis for the attenuation pond discharge(s) and for the pits, including estimates of treatment efficiency for each parameter of concern and the description of pH adjustments in the water license application to the NWB.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C48, C57, C49
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of treatment options wrt protection of water quality, review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
10	Cumberland shall provide details of the camp sewage treatment, including the type of treatment to be used and the expected treatment capabilities, in the water license application to the NWB.	INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	C57
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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		GN - EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
11	Cumberland shall provide details regarding the effluent outfall configuration, including discharge characteristics, the likely behavior of the plume(s), and bathymetric information for Wally Lake in the water license application to the NWB.	GN-Yes; EPA	GN-Yes; Guideline for Industrial waste discharge		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C45, C58
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
12	Cumberland shall provide details of a comprehensive water use and water management plan for the Baker Lake marshalling area, including monitoring of the discharge from the marshalling area sump, in the water license application to the NWB.	GN- EPA	GN-Yes; no specific guiding documents		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
13	Cumberland shall not permit the water discharged into Wally Lake and Third Portage Lake to exceed receiving environment discharge criteria established by the NWB or as otherwise required by law.	GN-Yes; EPA	GN-Yes; Guideline for Industrial waste discharge		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	

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		EC-MMER / Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
14	Cumberland shall not remove dewatering dikes until the quality of water contained within them is of sufficient quality to meet receiving environment discharge criteria established by the NWB or as otherwise required by law.	GN-Yes; EPA	GN-Yes; Guideline for Industrial waste discharge		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
15	Cumberland shall within two (2) years of commencing operations re-evaluate the characterization of mine waste materials, including the Vault area, for acid generating potential, metal leaching and non metal constituents to confirm FEIS predictions, and re-evaluate rock disposal practices by conducting systematic sampling of the waste rock and tailing in order to incorporate preventive and control measures into the Waste Management Plan to enhance tailing management during operations and closure. The results of the re-evaluations shall be provided to the NWB and NIRB's Monitoring Officer.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C43, C44, C46, C60
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		EC - Section 36(3) Fisheries Act / MMER	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
16	MISSED NUMBER					

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17	Cumberland shall undertake a detailed technical review of all dike and pitwall designs at the final design stage, and submit the final dike designs for water depths of greater than 10 metres for an expert analysis and Cumberland shall include the detailed technical review and the expert analysis in the application to the NWB for a water license.	INAC- if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	C64, C62, C61
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
18	Cumberland shall commit to a pro-active tailings management strategy through active monitoring, inspection, and mitigation. The tailings management strategy will include the review and evaluation of any future changes to the rate of global warming, compliance with regulatory changes, and the ongoing review and evaluation of relevant technology developments, and will respond to studies conducted during the mine operation.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C62
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
		EC-MMER, Section 36(3) of Fisheries Act	EC Advisory-review of climate change modelling results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
19	Cumberland shall provide for a minimum of two (2) metres cover of tailings at closure, and shall install thermistor cables, temperature loggers, and core sampling technology as required to monitor tailing freezeback efficiency. Cumberland shall report to NIRB's Monitoring Officer for the annual reporting of freezeback effectiveness.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153,	
20	Prior to construction, Cumberland shall identify mitigation measures that can be taken if groundwater monitoring around the tailings facility demonstrates that contamination from tailings has occurred through the fault . Upon drawdown of the North arm of Second Portage Lake, Cumberland shall conduct further tests to assess the permeability of any faults and provide the results to regulators. If doubt remains Cumberland shall seal the fault and conduct further permeability testing and monitoring.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C4, C5, C65
		INAC-if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	

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		EC-Section 36(3) of Fisheries Act	EC Advisory - review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
<b>MONITORING</b>						
21	Cumberland shall fund and install a weather station at the mine site to collect atmospheric data, including air temperature and precipitation.	GN-Yes; EPA	GN-Yes; Guideline for Air quality-sulphur dioxide & suspended particulates		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA	EC Advisory-review of atmospheric monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
22	Prior to the commencement of the Project, Cumberland shall fund and install an on site lab that has the capability to monitor parameters at a type and at a frequency acceptable to the NWB and EC at all site discharge points. The results of these analyses, as well as any other water quality monitoring required by regulatory authorities shall be used in the submission of a receiving water assimilative capacity water quality assessment study of concern to regulators. The lab shall be certified for environmental water quality analysis purposes with standards to include the calibration of water quality monitoring instruments. Cumberland shall file proof of application to become accredited upon the request of the NWB.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C45, C49
		INAC - if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act, MMR (Environmental Effects Monitoring Program) - relating to the monitoring environmental effects in the receiving environment (exposure areas versus reference areas)	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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23	For the purposes of monitoring quality assurance and quality control ("QA/QC"), Cumberland shall ensure that water quality monitoring performed at locations within receiving waters that allow for an assimilative capacity assessment of concern to regulators, be carried out by an independent contractor and submitted to an independent accredited lab for analysis, on a type and frequency basis as determined by the NWB. Results of analysis shall be provided to the NWB and NIRB's Monitoring Officer.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Section 36(3) of Fisheries Act, MMER	EC Advisory - review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		INAC - if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
<b>WASTE MANAGEMENT</b>						
24	Cumberland shall identify an area and design for a landfill for disposal of operational and closure non-salvageable materials, including a list of any non-salvageable materials, and a procedural manual for preparation of location and placements of these materials, and incorporate the design into the final Waste Management Plan as instructed by the NWB.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory-review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
25	Cumberland shall manage and control waste in a manner that reduces or eliminates the attraction to carnivores and/or raptors. Cumberland shall employ legal deterrents to carnivores and/or raptors at all landfill and waste storage areas. The deterrents are to be developed taking into consideration Traditional Knowledge and in consultation with the HTO, EC and INAC and incorporated into the final Waste Management Plan prior to filing the Plan with the NWB.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	



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		INAC - if part of water license (INAC - Field Operations)	INAC advisory		INAC - Peter Kusugak (advisory)	
		EC-Migratory Birds Convention Act and Migratory Bird Regulations, and Species at Risk Act	EC Advisory-Review of impacts to Species at Risk for which EC has jurisdiction (Note: the day to day management of raptors, grizzly bear and wolverine is the responsibility of the Government of Nunavut)	No permit/authorization to issue	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
26	Cumberland shall ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including wind-blown debris.	GN-Yes; EPA (GN-DOE review and approve spill plans)	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C24
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration)	INAC advisory		INAC - Peter Kusugak, Jim Rogers (Advisory) and Spencer Dewar (Advisory)	
		EC - CEPA / Section 36(3) of the Fisheries Act	EC Advisory-Review of emergency response/spill contingency plans	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
27	Cumberland shall ensure that the areas used to store fuel or hazardous materials are contained using safe, environmentally protective methods based on practical, best engineering practices.	GN-Yes; EPA (GN-DOE review and approve spill plans)	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC advisory		INAC - Peter Kusugak, Jim Rogers (Advisory) and Spencer Dewar (Advisory)	

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		EC - Section 36(3) Fisheries Act	EC Advisory-Review of emergency response/spill contingency plans. Please see the CCME document PN 1326 "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products"	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
28	Cumberland shall become a signatory to the International Cyanide Management Code, communicate this to shippers, and do so prior to Cumberland storing or handling cyanide for the Project.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
<b>PROJECT ALTERNATIVES AND PLANNED CHANGES</b>						
29	Cumberland shall report to NIRB if and when Cumberland develops plans for an expansion of the Meadowbank Gold Mine, and in particular if those plans affect the selection of Second Portage Lake as the preferred alternative for tailings management.	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	C32
			DFO - Yes - where changes could impact fish and/ or fish habitat			
30	Cumberland shall meet with EC and the DFO to ensure that the information required for the application to add the northwest arm of Second Portage Lake as a tailings impoundment area under Schedule 2 of the Metal Mining Effluent Regulations, including the No Net Loss Plan to offset losses expected as a result of all other Project infrastructure, is complete and the application can be processed according to law.	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	C63, C66
		EC-MMER / Schedule 2 listings	EC Advisory-Review of water quality monitoring results, alternatives assessment	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		Yes - MMER - DFO will not forward any application made by Cumberland to EC until the submission is complete			Tania Gordanier - DFO	
<b>ALL WEATHER PRIVATE ACCESS ROAD</b>						
31	Cumberland shall provide detailed stream crossing design criteria, including consideration of the DFO Operational Statement for Clear-span bridges for all water crossings identified to have fish presence, final crossing designs, site specific mitigation procedures, an effects monitoring program, and a maintenance and closure plan for all water course crossings, to the DFO and the NWB for review and approval.	INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC advisory		INAC - Spencer Dewar and Jim Rogers	C25

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		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		EC-Section 36(3) of Fisheries Act	EC Advisory - review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		DFO - Yes - Fisheries Act (section 35)	Yes - Clear Span Bridge Operational Statement		Tania Gordanier - DFO	
32	Cumberland shall operate the all-weather road as a private access road, and implement measures to limit public access to the road, including:	GN-Yes, Commissioners Land Act	GN-Yes		John Dawe, Community and Government Services (867) 975-5367	C16,C17,C18, C112
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration)	INAC advisory		INAC - Spencer Dewar	
A	The installation of locked gates at bridges 1 and 4;					
B	The posting of signs in English and Inuktitut at each gate, each major bridge crossing, and each 10 kilometres of road, stating that public use of the road is prohibited;					
C	The posting of signs in English and Inuktitut along the road route to identify when entering or leaving crown land;					
D	Prior to the opening of the road, advertise and hold at least one community meeting in the Hamlet of Baker Lake to explain to the community that the road is restricted to mine use only;					
E	Place notices on the radio and television to inform the residents of the Hamlet of Baker Lake that the road is restricted to mine use only;					

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F	Require all mine personnel using the road to monitor and report unauthorized non-mine use of the road, and collect and report this data to NIRB one (1) year after the road is opened and annually thereafter; and					
G	Report any information received, including accidents or other safety incidents on the road, including the locked gates, to the GN, KivIA, and the Hamlet immediately, and to NIRB annually.	GN-Yes, Motor Vehicle Act (only on publicly accessible portion of road)	GN-Yes (for entire road)		Lorna Gee, Director Motor Vehicles Division, GN, Gjoa Haven NU. (867).360.4614	
33	Cumberland shall update the Access and Air Traffic Management Plan 1 - to include an All-weather Private Access Road Management Plan, including a right-of-way policy developed in consultation with the KivIA, GN, INAC and the Hamlet of Baker Lake, for the safe operation of the all-weather private access road and 2 - to facilitate monitoring of the environmental and socio-economic impacts of the private road and undertake adaptive management practices as required, including responding to any concerns regarding the locked gates.	GN-Yes; EPA & Wildlife Act (WA), Transportation of Dangerous Goods Act	GN-Yes; no specific guiding documents; however requires consultation on access for the purpose of inspections pursuant to the Transportation of Dangerous Goods Act.		Lorna Gee, Director Motor Vehicles Division, GN, Gjoa Haven NU. (867).360.4614	C14, C15, C7, C8
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration)	INAC Advisory		INAC - Spencer Dewar, and JF Beauchesne	
		EC - Migratory Birds Convention Act and Migratory Bird Regulations and Species at Risk Act	EC Advisory - review of monitoring results for migratory birds and species at risk within EC jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
34	Cumberland shall, in consultation with the Hamlet of Baker Lake, KivIA, and the Royal Canadian Mounted Police, facilitate the hiring of a full-time road safety, search and rescue position to respond to safety matters arising from mine and unauthorized non-mine use of the all-weather private access road, including consulting with Baker Lake and Chesterfield Inlet Elders to incorporate Traditional Knowledge into search and rescue operations.	GN-Yes	GN-Yes		Glen Higgins, Department of Community & Government Services, (867)975-5403, ghiggins@gov.nu.ca	
35	Cumberland shall reclaim the all-weather private access road at the end of the mine life to prevent any future use of the road, including scarification of the road and restoration of the natural hydrology, topography, and vegetation, subject only to Cumberland and/or its successor seeking NIRB Article 12 approval for the road to be maintained and operated beyond the life of the mine.	GN-Yes; EPA	GN-Yes; Guideline for Contaminated site remediation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C20

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		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	Territorial Lands Act, Territorial Lands Regulations, Territorial Quarrying Regulations and INAC's Mine Site Reclamation Policy for Nunavut (2002), INAC advisory		INAC -Jim Rogers and Spencer Dewar	
		EC-Section 36(3) of Fisheries Act	EC Advisory -review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
<b>MARINE ENVIRONMENT</b>						
36	Cumberland shall ensure the placement of local area marine mammal monitors onboard all vessels transporting fuel or materials for the Project through Chesterfield Inlet.		DFO - Yes		Tania Gordanier - DFO	C37, C27, C93
		None regarding mammal monitors	Transport Canada - Marine Safety is only concerned with personnel required for the operation of the vessel.	n/a	Muhammad Akhtar, TC Marine Safety	
			DFO - Yes : advice is available on marine mammals in the Chesterfield Inlet area			
37	Cumberland will contract only Transport Canada certified shippers to carry cargo for the Project, and will require shippers transporting cargo through Chesterfield Inlet to carry the most up-to-date emergency response/spill handling equipment as recommended and accepted by the Government of Canada with the crew trained to deploy the equipment, including practice drills deploying spill equipment in remote locations within the Inlet.	GN-no	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C33, C34, C38
		CSA Periodic Ship Inspection	Numerous Regulations and Standards regarding Ship Construction, Personnel certification, Safe Working Practices, etc.	Unknown	Muhammad Akhtar, TC Marine Safety	
38	Cumberland shall make every reasonable effort to minimize the number of ships and barges transporting cargo for the Project, and require shippers transporting cargo for the Project through Chesterfield Inlet to be operated in accordance with safe shipping management policies, including using Canadian Hydrographic Service published detailed marine charts and nautical instructions, and be fitted with modern state-of-the-art navigation equipment.	GN-no	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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		CSA Periodic Ship Inspection	Navigation Safety Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
39	Within three (3) months of contracting with a shipping company to transport cargo to the Project through Chesterfield Inlet and prior to the commencement of shipping, Cumberland shall advertise and hold a community information meeting in Chesterfield Inlet to fully discuss the shipping program for the Project. Thereafter, Cumberland shall annually advertise and hold a community information meeting in Chesterfield Inlet to report on the Project and to hear from Chesterfield Inlet residents and respond to concerns. A consultation report shall be submitted to NIRB's Monitoring Officer within one month of the meeting.	GN-no	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C42, C36,
40	Cumberland shall gather Traditional Knowledge from the local HTOs and conduct a minimum of a one-day workshop with residents of Chesterfield Inlet to more fully gather Traditional Knowledge about the marine mammals, cabins, hunting, and other local activities in the Inlet. Cumberland shall report to KivIA and NIRB's Monitoring Officer annually on the Traditional Knowledge gathered including any operational changes that resulted from concerns shared at the workshop.					C39, C95, C94
41	Subject to vessel and human safety considerations, Cumberland shall require shippers carrying cargo to the Project through Chesterfield Inlet to follow the following mitigation procedures in the event that marine mammals are in the vicinity of the shipping activities:	GN-Yes; WA	GN-Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C40
			Yes - DFO has inhouse expertise on marine mammals that could be useful		Tania Gordanier - DFO	
		CSA, Regulatory requirement	Collision Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
A	Wildlife will be given right of way;	GN-Yes; WA	GN-Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		CSA, Regulatory requirement	Collision Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	

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B	Ships will maintain a straight course, constant speed, and will avoid erratic behaviour; and	GN-Yes; WA	GN-Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		CSA, Regulatory requirement	Collision Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
C	When marine mammals appear to be trapped or disturbed by vessel movements, the vessel will stop until the mammals have moved away from the area.	GN-Yes; WA	GN-Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		CSA, Regulatory requirement	Collision Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
42	Cumberland shall ensure all fuel transfer operations take place in accordance with the Arctic Waters Pollution Prevention Act and relevant oil transfer guidelines.	GN-no	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-AWPPA, Section 36(3) of Fisheries Act	EC-review of emergency response/spill contingency plans	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		CSA, Arctic Waters Pollution Prevention Act (AWPPA), Periodic Ship and OHF inspections	Numerous Regulations and Standards regarding Pollution Prevention, Safe Working Practices, etc.	Unknown	Muhammad Akhtar, TC Marine Safety	
43	Lightering activities at Helicopter Island are not approved, except in case of emergency only, and in such case Cumberland shall explain why all other methods were not practical, meaning technically, logistically, and financially not feasible.	GN-no	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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44	Within one (1) month of contracting with a shipper, Cumberland shall submit a comprehensive Spill Contingency and Emergency Response Plan to regulatory authorities.	GN-Yes; EPA	GN-Yes; Spill contingency and reporting regulations		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C24, C42
		EC-AWPPA, Section 36(3) of Fisheries Act	EC- review of emergency response/spill contingency plans	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		CSA, OPEP approval and site inspections	Oil Handling Facility Regulations/Standards	Unknown	Muhammad Akhtar, TC Marine Safety	
45	Cumberland shall carry, and require contracted shippers to carry adequate insurance to fully compensate losses arising from a spill or accident, including but not limited to the loss of resources arising from the spill or accident. Any claims are to be reported to proper officials with a copy to NIRB's Monitoring Officer.	CSA, AWPPA, Marine Liability Act Periodic Ship Inspections	Oil Pollution Regulations, Arctic Waters Pollution Prevention Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	C41
<b>FISH AND FISH HABITAT</b>						
46	Cumberland shall apply for Fisheries Act approval for the freshwater intake pipe for the Project, and submit for DFO approval a detailed plan of the proposed intake, including siting, design of intake screens in accordance with the DFO Freshwater End-of-Pipe Fish Screen Guidelines, construction and operation considerations, fish and fish habitat impacts, and mitigation and monitoring plans.	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	C69
		DFO - Yes - <i>Fisheries Act</i> Section 30	Freshwater Intake End-of-Pipe Fish Screen Guideline		Tania Gordanier - DFO	
47	Cumberland shall develop an adaptive approach to managing the water flow from Third Portage Lake, including the consideration of alternatives to deepening the easternmost channel; submission of detailed design of the easternmost channel modifications; a monitoring program for channel erosion, verification of the maintenance of water levels in Third Portage Lake, and the success of fish habitat enhancements; and contingencies in the event of channel failure, for approval by the DFO.	INAC - if part of water license (INAC - Water Resources)	INAC advisory		INAC - Jim Rogers	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		DFO - Yes - <i>Fisheries Act</i> Section 35	Policy for the Management of Fish Habitat		Tania Gordanier - DFO	
48	Cumberland shall demonstrate to the satisfaction of the DFO that the water management framework, including the embankment details and diversion ditch, will permit the maintenance of over-wintering fish habitat in Phaser Lake through the life of the Project.	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	



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		DFO - Yes - <i>Fisheries Act</i> Section 35	Policy for the Management of Fish Habitat		Tania Gordanier - DFO	
49	Cumberland shall develop, implement and report on the fish-out programs for the dewatering of Second Portage Lake, Third Portage Lake and Vault Lake. This must be done in consultation with the DFO, Elders and the HTOs, and in a manner that optimizes the acquisition of northern fisheries science and augments baseline fisheries data to support monitoring programs and the final design of fish habitat compensation for the Project.	DFO - Yes - <i>Fisheries Act</i> Section 32			Tania Gordanier - DFO	
50	Cumberland shall, in consultation with the DFO, undertake to prevent the barge landing facility from infilling of fish habitat, including considering using geotextile material in a manner that is capable of maintaining bottom substrate for benthic invertebrates and fish.	GN-Yes, Commissioners Land Act	GN-Yes		John Dawe, Community and Government Services (867) 975-5367	
		Yes, NWP Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		DFO - Yes - <i>Fisheries Act</i> Section 35	Policy for the Management of Fish Habitat		Tania Gordanier - DFO	
51	Cumberland shall engage the HTOs in the development, implementation and reporting of creel surveys within waterbodies affected by the Project to the GN, DFO and local HTO.		Yes - DFO can provide advice on creel survey methodology and interpretation of results		Tania Gordanier - DFO	C26
52	Cumberland shall enforce a no-fishing policy for employees while working on the job site.	GN-No	GN-No			
53	Cumberland shall, in consultation with the HTOs and DFO, develop a Fish Habitat Monitoring Plan, including augmenting baseline fisheries data in the period prior to operation, with the clear objective of demonstrating the success of the No Net Loss Plan approved by the DFO.	DFO - Yes - <i>Fisheries Act</i> Section 35			Tania Gordanier - DFO	C66, C67
<b>WILDLIFE AND TERRESTRIAL</b>						
54	Cumberland shall provide an updated Terrestrial Ecosystem Management Plan, to the GN, EC and INAC, within three (3) months of the issuance of the Project Certificate including:	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C10
		EC - Migratory Birds Convention Act and Migratory Bird Regulations, Species at Risk Act	EC-Yes, as detailed below			

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A	Updated terrestrial ecosystem baseline data;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			EC Advisory - review of baseline data for migratory birds and species at risk within EC jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
B	Details of the method and rationale for conducting monitoring surveys prior to the commencement of construction;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C83
			EC Advisory - review of survey methods for migratory birds and species at risk within EC jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
C	Statistical validation to support the conclusions drawn from monitoring impacts of the mine and infrastructure on wildlife;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C84, C11
			EC advisory - review of monitoring results for migratory birds and species at risk within EC jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
D	A detailed analysis of the method of distinguishing between cow/calf groups from other caribou group observations;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C97
E	Details of a comprehensive hunter harvest survey to determine the effect on ungulate populations resulting from increased human access caused by the all-weather private access road, including establishing preconstruction baseline harvesting data, to be developed in consultation with local HTOs, the GN-DOE and the Nunavut Wildlife Management Board;	GN-Yes; WA	GN-Yes; Wildlife license and permits regulations		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C81

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F	Details of annual aerial surveys to be conducted to assess waterfowl densities in the regional study area during the construction phase and for at least the first three (3) years of operation, with the data analyzed and compared to baseline data to determine if significant effects are occurring and require mitigation.	GN-Yes; WA	GN-Yes; Wildlife license and permits regulations		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C89, C98
			EC Advisory - Review of survey methods and monitoring results for migratory birds	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
G	Details of an annual breeding bird plot surveys and transects along the all-weather road to be conducted during the construction phase and for at least the first three (3) years of operation.	GN-Yes; WA	GN-Yes; Wildlife license and permits regulations		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C90, C99
			EC Advisory - Review of survey methods and monitoring results for migratory birds	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
H	Details of a monitoring program, including recording the locations and frequency of observing caribou and carnivores and any actions taken to avoid contact with or disturbance, and a specific mitigation plan for Short-eared owls and any other species of special concern pursuant to Schedule 3 of the Species at Risk Act located in the local study area or along the all-weather private access road,	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C92, C31, C82
			EC Advisory - Review of mitigation and monitoring for Species at Risk (Note: the day to day management of short-eared owls, peregrine falcon and grizzly bears is the responsibility of the Government	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
55	Cumberland shall provide the following analysis in the March 2007 Wildlife Summary Monitoring Report:	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C9
		EC - Migratory Birds Convention Act and Migratory Bird Regulations, Species at Risk Act	EC-Yes, as detailed below			

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A	Further review and analysis of the size of the regional study area;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C79
			EC Advisory - Reivew of monitoring plan for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
B	A summary of the involvement of Inuit in the monitoring program;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
C	A detailed report of the natural variability of VECs in the region;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C96
			EC Advisory - Review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
D	A detailed analysis on distribution and abundance of cows, bulls, and calves;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C97
E	Results of the 2006 monitoring program, including field methodologies and statistical approaches used to support conclusions drawn;	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C11, C99, C98
			EC Advisory - review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
F	Any proposed changes to the TEMP survey methodologies, statistical approaches or proposed adaptive management stemming from the results of the monitoring program.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C80
			EC Advisory - Review of monitoring results migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
56	Cumberland shall plan, construct, and operate the mine in such a way that caribou migration paths through the Project, including in the narrows west of Helicopter Island, are protected. Maps of caribou migration corridors shall be developed in consultation with Elders and local HTOs, including Chesterfield Inlet and placed in site offices and upgraded as new information on corridors becomes available. Information on caribou migration corridors shall be reported to the GN, KivIA and NIRB's Monitoring Officer annually.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
57	Cumberland shall participate in a caribou collaring program as directed by the GN-DOE.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C10
58	Cumberland shall, in consultation with Elders and the HTOs and subject to safety requirements, design the lighting and use of lights at the mine site to minimize the disturbance of lights on sensitive wildlife and birds.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC - Migratory Birds Convention Act and Migratory Bird Regulations, Species at Risk Act	EC Advisory - review of monitoring results and mitigation measures for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
59	Cumberland shall, in consultation with Elders and the HTOs, design and implement means of deterring caribou from the tailing ponds, such as temporary ribbon placement or Inukshuks, with such designs not to include the use of fencing.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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60	Whenever practical, Cumberland shall implement a stop work policy when wildlife in the area may be endangered by the work being carried out.	GN-Yes; WA	GN-Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Caribou protection measures in land lease and quarry permits (INAC - Land Administration)	INAC advisory		INAC - Spencer Dewar and Peter Kusugak	
		EC - Migratory Birds Convention Act and Migratory Bird Regulations, Species at Risk Act	EC Advisory - Review of monitoring plans for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
61	In consultation with EC, Cumberland shall incorporate into the Terrestrial Ecosystem Management Plan and the Air Traffic Management Plan a commitment for aircraft to maintain (whenever possible) a cruising altitude of at least 610 metres during point to point travel when in areas likely to have migratory birds, and 1000 metres vertical and 1500 metres horizontal distance from observed concentrations of migratory birds, and use flight corridors to avoid areas of significant wildlife importance.	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C82
		Aeronautics Act	Aeronautical Information Manual, RAC section, parts 1.14.1, 1.14.3 and 1.15.2	YES	Wayne Woloshyn / Manager of Aerodromes and Air Navigation / Prairie and Northern Region / Transport Canada Civil Aviation	
		EC - Migratory Birds Convention Act and Migratory Bird Regulations	EC Advisory - Review of monitoring results for migratory birds	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
<b>NOISE</b>						
62	Cumberland shall develop and implement a noise abatement plan to protect people and wildlife from significant mine activity noise, including blasting, drilling, equipment, vehicles and aircraft. The noise abatement plan will be developed in consultation with Elders, GN, HC, and EC, and include:	GN-Yes; WA and EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C87

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
		EC - Migratory Birds Convention Act and Migratory Bird Regulations	EC-Yes, as detailed below	N/A		
A	The use of sound meters to monitor sound levels in and around the mine site, including workers' on-site living /sleeping quarters and any summer camps adjacent to the site, and in the local study area, with the locations and design of the sound meters selected in consultation with HC and EC. Sound meters are to be set up immediately upon issuance of the Project Certificate for the purpose of obtaining baseline data, and monitoring during and after operations;	GN-Yes; EPA	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C78
			EC Advisory - review of impacts on migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
B	The establishment of strict standards for noise levels, such as the World Health Organization's Community Noise Guidelines threshold level for sleep disturbance;	GN-Yes; EPA	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
C	Restrictions on blasting and drilling when migrating caribou, or sensitive local carnivores or birds may be affected;	GN-Yes; WA	GN-Yes; INAC: Caribou Protection Measures		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C87
		INAC - Caribou protection measures in land lease and quarry permits (INAC - Land Administration)			INAC - Spencer Dewar and Peter Kusugak	
			EC Advisory - Reivew of impacts to and monitoring results for migratory birds	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
D	The use of noise attenuation devices for equipment and vehicles;	GN-Yes; EPA	GN-no		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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E	The use of temporary solid fences or berms around noisy machines or sites when practical; and	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
F	Require (with the exception of take off and approach for landing), a minimum flight altitude of 610 metres above ground when flights to and from the mine site are passing sensitive wildlife and bird areas.	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C82
			EC Advisory - Review of impacts to and monitoring results for migratory birds	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		Aeronautics Act	Aeronautical Information Manual, RAC section, parts 1.14.1, 1.14.3 and 1.15.2	YES	Wayne Woloshyn / Manager of Aerodromes and Air Navigation / Prairie and Northern Region / Transport Canada Civil Aviation	
	The noise abatement plan shall be filed with NIRB's Monitoring Officer within six (6) months of the issuance of the Project Certificate.	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
<b>SOCIO-ECONOMIC</b>						
63	Within six (6) months of the issuance of a Project Certificate, the GN and INAC shall form a Meadowbank Gold Mine Socio-Economic Monitoring Committee ("Meadowbank SEMC") to monitor the socio-economic impacts of the Project and the effectiveness of the Project's mitigation strategies. The monitoring shall supplement, not duplicate, the monitoring required pursuant to the IIBA negotiated for the Project, and on the request of Government or NPC, could assist in the coordination of data collection and tracking data trends in a comparable form to facilitate the analysis of cumulative effects. The terms of reference shall focus on the Project, include a plan for ongoing consultation with KivIA and affected local governments and a funding formula jointly submitted by GN, INAC and Cumberland. The terms of reference shall be submitted to NIRB for review and subsequent direction within six (6) months of the issuance of a Project Certificate. Cumberland is entitled to be included in the Meadowbank SEMC.	GN-No	GN-Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	C100. C103
			INAC advisory		INAC - JF Beauchesne	



No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
64	Cumberland shall work with the GN and INAC to develop the terms of reference for a socio-economic monitoring program for the Meadowbank Project, including the carrying out of monitoring and research activities in a manner which will provide project specific data which will be useful in cumulative effects monitoring (upon request of Government or NPC) and consulting and cooperating with agencies undertaking such programs. Cumberland shall submit draft terms of reference for the socio-economic monitoring program to the Meadowbank SEMC for review and comment within six (6) months of the issuance of a Project Certificate, with a copy to NIRB's Monitoring Officer.	GN-No	GN-Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	C12, C100, C103, C13, C21, C22, C23,
			INAC advisory		INAC - JF Beauchesne	
65	Cumberland shall include in its socio-economic monitoring program for the Meadowbank Project the collection and reporting of data of community of origin of hired Nunavummiut.	GN-No	GN-Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	C21
			INAC advisory		INAC - JF Beauchesne	
<b>HUMAN HEALTH</b>						
66	Cumberland shall establish a nursing station and hire a registered on-site nurse.	GN-No	GN-Yes		Isaac Sobol, Chief Medical Officer, Department of Health & Social Services, (867)975-5772, isobol@gov.nu.ca	
67	Cumberland shall develop and implement a program to monitor contaminant levels in country foods in consultation with HC. A copy of the plan shall be submitted to NIRB's Monitoring Officer.				Lou Spagnuolo (INAC)	
68	Cumberland shall, in consultation with Elders, local HTOs and the Meadowbank Gold Mine SEMC, demonstrate that they are working toward incorporating Inuit societal values into mine operation policies.			INAC advisory (via SEMC)	JF Beauchesne (INAC)	
<b>ARCHAEOLOGY</b>						
69	Cumberland shall carry out the Project to minimize the impacts on archeological sites, including conducting proper archeological surveys of the Project area (including the all-weather road and all quarry sites). Cumberland shall provide to the GN an updated baseline report for archeological sites in the Project area, including:	GN-Yes, Nunavut Archaeological and Palaeontological Site Regulation, the NLCA Section 33, and the Nunavut Act Section 51 and 52.	GN-Yes, Guidelines for Nunavut Archaeological and palaeontological permit holders		Julie Ross jross@gov.nu.ca (Until April 2007) April 2007-April 2008 Doug Stenton dstenton1@gov.nu.ca	C113

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		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration)			INAC - Spencer Dewar	
A	referencing of sites as directed by the GN.					
B	the process used for age determinations of archeological sites, and					
C	the specific measures being taken to avoid listed sites, and					
D	the monitoring that will take place,					
	to the GN prior to the commencement of construction.					
70	Cumberland shall report any archeological site discovered during the course of construction, including a burial site, immediately and concurrently to the GN and KivIA. Upon discovering an archeological site, Cumberland shall take all reasonable precautions necessary to protect the site until further direction is received from the GN. In the event that it becomes necessary to disturb an archeological site, Cumberland shall consult with Elders, GN and KivIA to establish a site specific mitigation plan, and obtain all necessary authorizations and comply with all applicable laws.	GN-Yes, Nunavut Archaeological and Palaeontological Site Regulation, the NLCA Section 33, and the Nunavut Act Section 51 and 52.	GN-Yes, Guidelines for Nunavut Archaeological and palaeontological permit holders		Julie Ross jross@gov.nu.ca (Until April 2007) April 2007- April 2008 Doug Stenton dstenton1@gov.nu.ca	
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration)			INAC - Spencer Dewar	
<b>AIR QUALITY</b>						
71	Cumberland shall, in consultation with EC, install and fund an atmospheric monitoring station to focus on particulates of concern generated at the mine site. The results of air-quality monitoring are to be reported annually to NIRB.	GN-Yes; EPA	GN-Yes; Guideline for Air quality- sulphur dioxide & suspended particulates		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C77
		EC-CEPA	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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72	On-site incinerators shall comply with Canadian Council of Ministers of Environment and Canada-Wide Standards for dioxins and furan emissions, and Canada-wide Standards for mercury emissions, and Cumberland shall conduct annual stack testing to demonstrate that the on-site incinerators are operating in compliance with these standards. The results of stack testing shall be contained in an annual monitoring report submitted to GN, EC and NIRB's Monitoring Officer.	GN-Yes; EPA and Canada-Wide Standard (CWS) for furan and dioxin, and CWS for mercury	GN-Yes; CWS for furan and dioxin, and CWS for mercury		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C73, C75
		EC-CEPA, Canada-wide Standard for the Dioxins and Furans and the Canada-wide Standard for Mercury	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
73	Cumberland shall undertake to conserve the Project's use of energy, monitor the Project's green house gas emissions, and continuously review and, if possible, consider for adoption new technologies to ensure greenhouse gases meet the latest Canadian standards or criteria.	GN-No	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C71
74	Cumberland shall employ environmentally protective techniques to suppress any surface road dust.	GN-Yes; EPA	GN-Yes; Guideline for Dust Suppression		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C72
			INAC advisory		INAC - Jim Rogers	
		EC-CEPA, Section 36(3) Fisheries Act	EC Advisory - review of water quality and air quality monitoring results	See <a href="http://www.ec.gc.ca/nopp/roads/alt/en/index.cfm">http://www.ec.gc.ca/nopp/roads/alt/en/index.cfm</a> . Detailed information on the storage of chloride-based dust suppressents can be found at <a href="http://www.ec.gc.ca/nopp/roads/alt/reports/chlorideBP/en/toc.cfm">http://www.ec.gc.ca/nopp/roads/alt/reports/chlorideBP/en/toc.cfm</a>	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
<b>ACCIDENTS AND MALFUNCTIONS</b>						
75	Cumberland shall provide a complete list of possible accidents and malfunctions for the Project. It must consider the all-weather road, shipping spills, cyanide and other hazardous material spills, and pitwall/dikes /dam failure, and include an assessment of the accident risk and mitigation developed in consultation with Elders and potentially affected communities.	GN-Yes; EPA	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C6

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		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources) specific to INAC's jurisdiction	INAC advisory		INAC - Spencer Dewar and Peter Kusugak	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		EC-Section 36(3) of Fisheries Act, Migratory Bird Convention Act and Migratory Bird Regulations, Species at Risk Act, CEPA	EC Advisory - review of impacts to water quality, emergency response/spill contingency planning, migratory birds, species at risk over which EC has jurisdiction, and hazardous materials management	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
			Yes - DFO can comment on the potential risk associated with accidents and malfunctions that could impact fish and fish habitat		Tania Gordanier - DFO	
		Canada Shipping Act (CSA), Oil Pollution Emergency Plan (OPEP) approval and site inspections	Oil Handling Facility Regulations/Standards	Unknown	Muhammad Akhtar, TC Marine Safety	
76	Cumberland shall develop an "Early Warning Monitoring Program" along the east boundary of the Project's local study area (mine and road) including the location where Third Portage Lake flows into Tehok Lake. The "Early Warning Monitoring Program" shall discuss how the communities of Baker Lake and Chesterfield Inlet will be actively involved and shall be submitted to NIRB's Monitoring Officer for review prior to Project construction. If adverse effects from the project to any VEC are detected along this boundary, then Cumberland shall notify the NIRB's Monitoring Officer for determination as to whether and to what extent additional monitoring is required.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC - Section 36(3) of Fisheries Act, Migratory Bird Convention Act, Migratory Birds Regulations	EC Advisory - Review of monitoring results for water quality, migratory birds, species at risk over which EC has jurisdiction, and emergency response/spill contingency planning	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
77	Cumberland shall as soon as possible, review and coordinate its Emergency Response Plan with the emergency response plans of the Hamlets of Baker Lake and Chesterfield Inlet.	GN-Yes; EPA	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

**ABANDONMENT AND RECLAMATION**

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
78	Cumberland shall file a complete Closure and Reclamation Plan developed to comply with INAC's policy of full cost of restoration and any related NWB requirements such that the Inuit and taxpayers are not liable for any cost associated with the cleanup, modification, decommission, or abandonment.	INAC - Yes - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC - Jim Rogers and Spencer Dewar	C19
79	In addition to the NWB's requirements, the final Closure and Reclamation Plan shall require Cumberland to:	GN-Yes; EPA	GN-Yes; Guideline for Site Reclamation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C19
		EC-Section 36(3) of Fisheries Act, Migratory Bird Convention Act and Migratory Bird Regulations, Species at Risk Act	EC-Yes, as detailed below	N/A		
A	Ensure that mine facilities and infrastructure are abandoned in such a manner that: i. The Project site is physically stable and any requirements for long term maintenance and monitoring are minimized; ii. Threats to public safety and wildlife are eliminated; and iii. Affected areas are returned to the original undisturbed conditions to the fullest extent possible.	GN-Yes; EPA	GN-Yes; Guideline for Site Reclamation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC - Jim Rogers and Spencer Dewar	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
			EC Advisory - review of monitoring results for water quality, migratory birds, and species at risk over which EC has jurisdiction		Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
B	Prevent continuing impacts from contaminants and wastes on the environment including those associated with acid rock drainage;	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC's Mine Site Reclamation Policy for Nunavut (2002)		INAC - Jim Rogers and Spencer Dewar	
			EC Advisory - Review of water quality monitoring results		Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
C	Remove all hazardous materials and waste and as much salvageable waste as practicable from the Project area; and	GN-Yes; EPA	GN-Yes; Guideline for Site Reclamation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Land Lease and Quarry Permits under the Territorial Lands Act and Territorial Lands Regulations and Territorial Quarrying Regulations (INAC - Land Administration) and if part of water license (INAC - Water Resources)	INAC's Mine Site Reclamation Policy for Nunavut (2002)		IINAC - Jim Rogers and Spencer Dewar	
			EC Advisory - Review of water quality monitoring results, hazardous waste management plans		Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
D	Enter into written arrangements with its abandonment and reclamation contractors to ensure all site debris is cleaned up off the lands, including wind-blown debris.	GN-Yes; EPA	GN-Yes; Guideline for Site Reclamation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - if part of approved A&R plan (INAC - Lands Administration) and (INAC - Water Resources)	INAC advisory		Jim Rogers and Spencer Dewar	

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80	Cumberland shall file annually with NIRB's Monitoring Officer an updated report on progressive reclamation and the amount of security posted, as required by KivIA, INAC, and/or the NWB.	GN-Yes; EPA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C19
<b>OTHER</b>						
81	Beginning with mobilization, and for the life of the Project, Cumberland shall provide full 24 hour security, including surveillance cameras and a security office at the Baker Lake storage facility/marshalling area, and take all necessary steps to ensure the safe and secure storage of any hazardous or explosive components within the Hamlet of Baker Lake boundaries.	GN-Yes; EPA	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		NRCan, Explosives Act, temporary explosives factory licence, explosives factory licence	NRCan, please see <a href="http://www.nrcan-nrcan.gc.ca/mms/explosif/licen/licen_e.html">http://www.nrcan-nrcan.gc.ca/mms/explosif/licen/licen_e.html</a> for guiding documents		Neil Maclean, Explosives Branch, NRCan, 1431 Merivale Road, Ottawa, ON, K2E 1B9, 613-948-5177. neil.maclean@nrcan.gc.ca	
82	Cumberland shall monitor the ingress/egress of ship cargo at Baker Lake and report any accidents or spills immediately to the regulatory agencies as required by law and to NIRB's Monitoring Officer annually.	GN-Yes; EPA	GN-Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		INAC - Nunavut Waters and Nunavut Surface Tribunal Act (INAC - Field Operation)	INAC advisory		INAC - Peter Kusugak	
		EC - Section 36(3) of Fisheries Act	EC Advisory - Review of emergency response/spill contingency plans	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
		Yes, NWP/PA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		CSA, Regulatory requirement	Pollutant Discharge Reporting Regulations, 1995	Unknown	Muhammad Akhtar, TC Marine Safety	

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83	Cumberland shall ensure that the explosive mix-truck is only used to mix diesel and ammonia nitrate to form an explosive only at the blast site, and that when the explosive mix-truck is not in use it is stored with the strictest setback requirements as required or recommended by NRCan.	NRCan, Explosives Act, temporary explosives factory licence, explosives factory licence	NRCan, please see <a href="http://www.nrcan-mcan.gc.ca/mms/explosif/licen/licen_e.html">http://www.nrcan-mcan.gc.ca/mms/explosif/licen/licen_e.html</a> for guiding documents		Neil Maclean, Explosives Branch, NRCan, 1431 Merivale Road, Ottawa, ON, K2E 1B9, 613-948-5177. neil.maclea@nrcan.gc.ca	
84	To the extent permitted by the IIBA, and when the assets are no longer required by Cumberland, Cumberland shall offer the Hamlet of Baker Lake the first right of refusal to purchase salvageable mine assets located within the Hamlet of Baker Lake boundaries.					
85	Cumberland shall develop a detailed blasting program to minimize the effects of blasting on fish and fish habitat, water quality, and wildlife and terrestrial VECs. The Blasting Program shall be developed in consultation with the DFO and GN, and shall:	GN-Yes; EPA & WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC - Section 36(3) of Fisheries Act, Migratory Birds Convention Act and Migratory Birds Regulations, Species at Risk Act	EC-Yes, as detailed below			
A	a) comply with the Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters (Wright and Hopky, 1998) as modified by the DFO for use in the north;	DFO - Yes - <i>Fisheries Act</i> Section 32	Guidelines for the Use of Explosives in or near Canadian Fisheries Waters		Tania Gordanier - DFO	
B	b) including a monitoring and mitigation plan to be developed in consultation with the DFO, and obtain DFO approval of the blasting program prior to the commencement of blasting;					
C	c) restrict blasting when migrating caribou, or sensitive local carnivores or birds may be negatively affected; and	GN-Yes; WA	GN-Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	C87
			EC Advisory - Review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	



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D	d) minimize the use of ammonium nitrate to reduce the effects of blasting on receiving water quality.	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
<b>DUTY TO COMPLY</b>						
86	Cumberland shall comply with all Terms and Conditions of this approval, and any non-compliance constitutes a violation of the approval and is grounds for NIRB's reconsideration and recommendation to the Minister under Article 12, Part 8 of the NLCA.	GN - No	No			
<b>APPENDIX A - LIST OF COMMITMENTS</b>						
	Commit to re-run model for a sensitivity analysis on total dissolved solids concentration in pit waters	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of groundwater quality and surface water quality models	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
	2 Commit to resample groundwater monitoring wells in summer 2006	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of groundwater quality data monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
	3 Commit to considering capping Vault pile with fine grain material and/or establish corridors for wildlife	GN-Yes; EPA	Yes; Guideline for Contaminated site remediation		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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	Commit to identifying mitigation measures if groundwater contamination (tailings) has occurred during operation. Include what triggers would be used in this 4 evaluation	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
	Commit to assessing permeability of fault upon drawdown of North arm of Second 5 Portage Lake and commit to establishing trigger levels and mitigation strategies	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of water quality monitoring results	n/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
		RA NWPA	Yes NWP Act		Steve Drumond	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
	Compile a technical memo that addresses "Accidents and Malfunctions" resulting 6 from catastrophic events	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	

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		EC-Section 36(3) of Fisheries Act, CEPA, Migratory Birds Convention Act, Migratory Bird Regulations, Species at Risk Act	EC Advisory - Review of impacts to water quality, air quality, emergency response/spill contingency planning, migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
7	Monitor the accuracy of predictions of the impact of road on wolverine and bears	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
8	Adaptive road management plan that considers the all wildlife mortality incidents	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations, and Species at Risk Act	EC Advisory - Review of management plans for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
9	Include in next Wildlife Monitoring summary report (March 2007)	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations, and Species at Risk Act	EC Advisory - Review of management plans and monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	<ul style="list-style-type: none"> <li>• Review and evaluation of size of RSA</li> <li>• Report of the natural variability of VECs</li> <li>• Detailed analysis of distribution and abundance of cows, bulls and calves to distinguish between potentially different groups of caribou</li> </ul>	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
10	Issue a revised TEMP document which will provide more detailed information on the following	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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	<ul style="list-style-type: none"> <li>Study used determine effects on ungulate populations from the increased human access caused by the all-weather road</li> <li>Collaring study and cooperative agreement between DOE, CRL and other studies proposed</li> <li>Investigative tools used to conduct monitoring surveys prior to construction</li> </ul>	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
11	Provide details on statistical approach and validation to support conclusions drawn from monitoring impacts on wildlife	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Bird Convention Act and Migratory Bird Regulations, Species at Risk Act	EC Advisory - Review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
12	Participate in socio-economic monitoring programs that will be developed in collaboratively by the RMMC	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchesne	
13	Develop a wellness monitoring plan for Baker Lake and other communities that might be impacted by the project. The geographic scope of wellness monitoring to be defined at that time	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchesne	
14	Work with INAC and other interested parties to develop details of all-weather road management plan	GN-No	Yes		John Hawkins, Transportation Policy & Planning, Iqaluit, John Hawkins (867)975-7826	
			INAC advisory		INAC - Spencer Dewar	
15	Update of Access and Air Traffic Management Plan to incorporate adaptive management practices	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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			INAC advisory		INAC - Spencer Dewar	
		EC-Migratory Birds Convention Act, Migratory Bird Regulations, Species at Risk Act	EC Advisory - Review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
16	Effectively communicate to community of Baker Lake the private nature of the road and inform residents of CRL road-use restrictions	GN-No	No			
17	Effectively communicate CRL road-use policy to community of Baker Lake	GN-No	No			
18	Observe, collect and maintain information on road-use to facilitate monitoring of the nonproject uses of the road	GN-No	No			
			INAC advisory		INAC - Spencer Dewar and JF Beauchesne	
19	Consult with stakeholders and update its reclamation and closure plan with the final design for decommissioning once this information becomes available	GN-Yes; EPA	Yes; Contaminated site remediation guideline under EPA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		EC-CEPA, Section 36(3) of Fisheries Act	EC Advisory - Review of monitoring results for water quality, hazardous materials management	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
20	Should CRL maintain or operation the road beyond the current proposal, INAC suggests a subsequent environmental assessment may be required	GN-No	No		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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			INAC advisory		INAC - Robyn Abernethy Gillis	
21	Track the community of origin of hired Nunavimmiut to direct monitoring and follow-up activities	GN-No	No		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beaulac	
22	Consider adaptive monitoring and mitigation measures for communities other than Baker Lake should these be substantially affected by the Project	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beaulac	
23	Data collected during normal mine operation will be gathered and reported in a form that is compatible with socio-economic project monitoring	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beaulac	
24	Submit complete Spill Contingency Plan to EC for review, once available. This plan will address the concerns of the residents of Chesterfield inlet	GN-Yes; EPA	Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA, Section 36(3) of Fisheries Act	EC-review of emergency response/spill contingency plans	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
25	Follow DFO recommendations on the design of water course crossings to minimize impacts to fish and fish habitat (March 10, 2006 letter from DFO)	GN-No	No			
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
		DFO - Yes - Fisheries Act Section 35			Tania Gordanier - DFO	

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	Engage local HTO in the development, implementation and reporting of creel surveys within water bodies affected by the project 26	GN-No	No			
	Provide clarification on what vessels will marine mammal monitors be allowed to board 27	GN-No	No			
	Notify Navigable Waters Protection Program to assess the navigability of additional water crossings, if any, along the all-weather route 28	GN-No	No			
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
	Engage in discussions with representatives of the Canadian Coast Guard to reassess where response and spill kits are presently located within Nunavut , and not put the onus on TC for placing community spill kits in the Hamlets of Chesterfield Inlet and Baker Lake 29	GN-Yes; EPA	Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC advisory		INAC - Jim Rogers	
		n/a	TC is not the responsible lead agency for the location of spill response equipment.	n/a	Muhammad Akhtar, TC Marine Safety	
	Identification of the proper Transport Canada branches and other federal government departmental responsibilities will be specified where appropriate 30	GN-No	No			
			Refer to Appendix B - List of applicable Legislation and Authorizations required for the Meadowbank Gold Mine Project for the Transport Canada branches.		Steve Drummond, Superintendent NWPP, Edmonton _ Muhammad Akhtar, TC - Marine Safety, Wayne Woloshyn, TC - Civil Aviation	

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	Monitoring of caribou within the study area be completed on a monthly basis once all-weather road is completed 31	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
	Notify the Department of Land and Resources of any changes in the proposed project 32	GN-No	No			
	Only a Transport Canada Certified Shipper will be hired to carry Cumberland's supplies 33	GN-No	No			
		CSA Periodic Ship Inspection	Numerous Regulations and Standards regarding Ship Construction, Personnel certification, Safe Working Practices, etc.	Unknown	Muhammad Akhtar, TC Marine Safety	
	The shipping company will have spill equipment on board with crew trained to deploy the equipment 34	GN-Yes; EPA	Yes; Spill contingency and reporting regulations and Guideline for Contingency planning and spill reporting in Nunavut		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		CSA, Periodic Ship inspections	Oil Pollution Regulations, Numerous Standards regarding vessel operations in Arctic Waters	Unknown	Muhammad Akhtar, TC Marine Safety	
	The Coast Guard will be notified as soon as a spill has occurred and, if required, will provide further spill support 35	CSA, Regulatory requirement	Pollutant Discharge Reporting Regulations, 1995	Unknown	Muhammad Akhtar, TC Marine Safety	
			INAC advisory		INAC - Peter Kusugak	
	Once the shipping company is hired, the shipper and Cumberland will return to Chesterfield Inlet for a one-day workshop to more fully discuss the successful companies' procedures, type of ships, spill equipment, etc. 36					
	Cumberland will place a local monitor from Chesterfield Inlet on ships carrying fuel for the Meadowbank project 37					



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	Cumberland will request that the shipping company contracted to carry fuel for the project carry out practice drills deploying their spill equipment in various locations within the inlet 38	CSA, Periodic Ship inspections	Pollutant Discharge Reporting Regulations, 1995	Unknown	Muhammad Akhtar, TC Marine Safety	
	In addition to the initial TK information currently being gathered by Andrea Tautou of the HTO on cabins and hunting areas, Cumberland will conduct a one-day workshop to more fully gather TK relating to local activities in the inlet 39					
	In addition to the local monitor, captains will follow the following mitigation procedures in the event that marine mammals are in the vicinity of the shipping activities – Construction /Operations: 40	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		CSA, Regulatory requirement	Collision Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
	i) Wildlife will be given right of way. ii) Ships will maintain a straight course, constant speed, and will avoid erratic behaviour. iii) When marine mammals appear to be trapped or disturbed by barge/ship movements, the barge/ship will stop until the mammals have moved away from the area.	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
41	Cumberland and the Shipper will carry shipping insurance	CSA, AWPPA, Marine Liability Act Periodic Ship Inspections	Oil Pollution Regulations, Arctic Waters Pollution Prevention Regulations	Unknown	Muhammad Akhtar, TC Marine Safety	
42	Cumberland will conduct annual community consultation visits in Chesterfield to report on the project and related shipping activities and to hear any concerns/comments from Chesterfield Inlet residents					
43	Re-do WQ modeling with less conservative assumptions: no rock wetting factors, no permafrost, use 1-kg IV rather than 100-kg IV rates for poor-end; used 100-kg for best estimate; higher temperature of soil to air by 4.4oC; long-term WQ w global warming; minimal improvement to WQ from UM cover (not automatic transition)	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	

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		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
44	Additional Field and lab analysis of WR to segregated PAG and non-PAG rock	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
45	Diffuser design and impact of effluent on receiving environments	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-MMER (Environmental Effects Monitoring Program) - relating to the monitoring environmental effects in the receiving environment (exposure areas versus reference areas)	EC Advisory - Review water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
46	Adaptive management of (placement of) mine waste material considering monitoring results obtained during operation	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	

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47	Confirmatory sampling of Road alignment rock and pre-approval of ARD criteria	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		Jim Rogers	
48	Detailed plans for water treatment	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
49	Evaluation of viability of proposed in-situ and active treatment system and subsequent effects of effluent to receiving environment (near and far-field)	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-MMER (Environmental Effects Monitoring Program) - relating to the monitoring environmental effects in the receiving environment (exposure areas versus reference areas)	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	
50	Re-evaluate model using 2003 and 2004 groundwater data	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - review of groundwater quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.g c.ca	

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	Replace defective wells and conduct 3 to 4 semi-annual groundwater monitoring rounds 51	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of groundwater quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	After 1 year of additional data collection (in 2007) re-evaluate water quality (model) to compare to actual performance once mine start up 52	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of groundwater and surface water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	1.1 Reconsider ARD screening criteria and include regulators in approval of ratios/guidelines as warranted 53	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
	1.2 Long-term chemical stability (metal leaching) of UM rock 54	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	

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	1.4 revise water balance and water quality predictions. Measures to monitor and confirm predictions, trigger for mitigation	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act, MMER	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	56 1.5 operational criteria for waste management and use of WR	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
	57 1.6 provide/develop summary of treatment needs	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act, MMER	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	58 1.7 effluent plume delineation (near-field) modeling and revised WQ predictions	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Section 36(3) of Fisheries Act, MMER	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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59	1.9 Monitoring of all-weather road rock quality, ARD/ML potential	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers and Spencer Dewar	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
60	1.10 Continued geochemical characterization (laboratory and filed tests) of UM, PAG and uncertain PAG rock and input into adaptive waste management plan	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
61	Lake bed sediment samples to be collected and analyzed for geotechnical properties	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-Section 36(3) of Fisheries Act	EC Advisory - Review of water quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
62	Review tailings and waste management alternatives including climate change, conduct gap analysis to determine deficiencies required for engineering and construction of dikes	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	

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63	Consolidate Tailings management alternatives assessment into one document	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		EC-MMER, Schedule 2 listing -- no permit/authorization to issue	EC Advisory - Review of water quality monitoring results, alternatives assessment	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
64	Perform a technical review of dewatering dikes	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
		Yes, NWPA	Yes, NWP Act		Steve Drummond, Superintendent NWPP, Edmonton	
	Carry out coupled seepage-thermal and solute transport modeling including Second Portage lake fault zone	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
65			INAC - advisory		INAC - Jim Rogers	
			NRCan		Andrew McAllister, Senior Environmental Assessment Officer, NRCan, 580 Booth, Ottawa, ON, K1A 0E4, 613-995-3153, amcallis@nrcan.gc.ca	
	Revise the No Net Loss plan to address specific requirements related to the scheduling the northwest arm of Second Portage Lake as a Tailings Impoundment Area	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drummond - Superintendent NWPP, Edmonton	
66		DFO - Yes - Metal Mining Effluent Regulations			Tania Gordanier - DFO	

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67	Investigate additional "A" and "B" list compensation options during summer 2006	DFO - Yes - Fisheries Act Section 35			Tania Gordanier - DFO	
68	Incorporate hydrology information at fish bearing stream crossings into detailed design of bridges and culverts along the all-weather road		INAC - advisory		INAC - Jim Rogers	
		Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		DFO - Yes - Fisheries Act Section 35			Tania Gordanier - DFO	
69	Provide detailed engineering of water intake pipe to avoid fish habitat disturbance along the shoreline	Yes, NWPA Sec 5-6	Yes, NWP Act		Steve Drumond - Superintendent NWPP, Edmonton	
		DFO - Yes - Fisheries Act Section 35			Tania Gordanier - DFO	
70	Prepare and implement Incinerator Waste Management Plan	GN-Yes; EPA & CWS	Yes; CWS for furan and dioxin, and CWS for mercury		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA, Canada-wide Standard for Dioxins and Furans and Canada-wide Standard for Mercury	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
71	Develop Energy Conservation Plan	GN-No	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
72	Incorporate the Government of Nunavut Dust Suppression Guidelines issued under the Environmental Protection Act to Cumberland Air Quality Management Plan	GN-Yes; EPA	Yes; Guideline for Dust Suppression		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA	EC-Review of Air Quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	



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73	Conduct annual incinerator stack emission monitoring for mercury, dioxins and furans and report results to Environment Canada and Government of Nunavut	GN-Yes; EPA & CWS	Yes; CWS for furan and dioxin, and CWS for mercury		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA, Canada-wide Standard for Dioxins and Furans	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
74	Provide annual report of the quantity and type of waste generated at the mine site distinguishing landfilled, recycled and incinerated streams	GN-Yes; EPA & CWS	Yes; CWS for furan and dioxin, and CWS for mercury		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Jim Rogers	
75	Reassess the selection of incinerators and justify the decision in regards to best available economically feasible technologies (BAEFT)	GN-Yes; EPA & CWS	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA, Canada-wide Standard for Dioxins and Furans and Canada-wide Standard for Mercury	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
76	Provide a list of all personnel trained to operate the incinerator	GN-Yes; EPA & CWS	Yes; CWS for furan and dioxin, and CWS for mercury		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-CEPA, Canada-wide Standard for Dioxins and Furans and Canada-wide Standard for Mercury	EC Advisory - Review of air quality monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
77	Install and operate two particulate samplers at the project site and report annually monitoring results conforming to detailed reporting protocol	GN-Yes; EPA	Yes; Guideline for Air quality-sulphur dioxide & suspended particulates		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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		EC-CEPA	EC-air quality	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
78	Perform sound level monitoring twice a year and document results	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
79	Justification for existing RSA	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
80	Elaboration of threshold mortality levels of "1" for Grizzly Bear, Wolverine, Caribou and Muskox, and commitment to report any mortalities of the above species immediately and enact adaptive mitigation measures immediately	GN-Yes; WA	Yes; WA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
81	Details of hunter harvest study	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
82	Discussion of aircraft over-flight height limits (610 m for point to point; 1000m vertical and 1500m horizontal for concentrations) and proposed efforts to monitor impacts of air traffic at mine site on wildlife	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations, and Species at Risk Act	EC Advisory - Review of monitoring results for migratory birds and species at risk over which EC has jurisdiction	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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		Aeronautics Act	Aeronautical Information Manual, RAC section, parts 1.14.1, 1.14.3 and 1.15.2	YES	Wayne Woloshyn / Manager of Aerodromes and Air Navigation / Prairie and Northern Region / Transport Canada Civil Aviation	
83	Methodology of all monitoring programs including satellite-collaring	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
84	Description of statistical approach, power and capability	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
85	Details on revegetation monitoring post-closure including commitment to initiate revegetation trials as early as possible	GN-Yes; WA & EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
86	Management approach to waste rock piles and quarry sites	GN-Yes; EPA	Yes; Contaminated site remediation guideline under EPA		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
			INAC - advisory		INAC - Spencer Dewar	
87	Elaboration of environmentally sensitive times for blasting	GN-Yes; EPA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

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	Map of Key Migratory Bird Site and commitment to avoiding disturbance between mid-June and late-August 88	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC Advisory - Review of migratory birds monitoring results -- Please see CWS Occasional Paper #71 "Key migratory bird Terrestrial habitat sites in Northwest Territories"	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	Commitment to collecting and analyzing waterfowl data from monitoring surveys, particularly from aerial surveys of RSA 89	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC Advisory - Review of survey methods and migratory birds monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	Commitment to conducting breeding bird surveys annually during construction phase and at least the first three years of operation 90	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC Advisory - Review of migratory birds monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
	Elaboration of mitigation measures to reduce denning, roosting, and nesting sites for avian predators and Arctic foxes 91	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC-Advisory - Review of migratory birds monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	

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92	Information on management approach for Short-eared Owl	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Species at Risk Act	EC Advisory - Review of management plan for Short-eared owls -- Note: day to day management of short-eared owls rests with the Government of Nunavut	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
93	Program details of Inuit monitors on barges/ships					
94	Methodology for interviewing elders and hunters annually – traditional knowledge workshop					
95	Commitment to annual reports summarizing: a) information from traditional knowledge workshop; b) government population and harvest data; and c) on-board Inuit observation and encounter reports					
96	Analyses of natural environmental changes	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
97	Discussion of caribou data distinguishing between sex and age	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
98	Analysis of waterfowl data collected on aerial and other surveys	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC Advisory - Review of migratory birds monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
99	Analysis of breeding bird plot and transect survey data	GN-Yes; WA	Yes; no specific guiding documents.		Mike Atkinson (GN-DOE :Manager of Land Use and Environmental Assessment) PH: (867) 975-7732 EM: matkinson@gov.nu.ca	
		EC-Migratory Birds Convention Act and Migratory Birds Regulations	EC Advisory - Review of migratory birds monitoring results	N/A	Colette Spagnuolo Tel: 867-975-4639; Fax: 867-975-4645; Email: colette.spagnuolo@ec.gc.ca	
100	Cumberland, in the FEIS and the letter to INAC in early March, had undertaken to participate with other interested parties in collaborative socio-economic monitoring, specifically focusing on issues related to individual and community wellness. This monitoring will be outside the IIBA, and is similar in concept to that agreed for the Jericho and Doris North projects. Cumberland has agreed with INAC, as a commitment, that Cumberland will initiate a process to agree on objectives, scope, terms of reference and roles and responsibilities for this monitoring before the issuance of any project certificate, with a goal of achieving agreement within six months of the issuance of any project certificate	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchene	
101	Cumberland agrees with INAC that labor force adjustments, the transition to full time wage employment and the relationship between economic growth and community wellness are issues that should be included in socio-economic monitoring	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchene	
102	Cumberland has agreed with INAC, as a commitment, to include pre employment orientation for potential hires by Cumberland in the Labor Force Development Plan that will be developed under the terms of the IIBA. This commitment is in recognition that it is in the interests of both potential hires and Cumberland to ensure to the extent practicable that potential hires are well informed of the implications (nature of the work, workforce management, personal and family challenges etc.) of accepting employment with Cumberland	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchene	

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
103	Cumberland, in the FEIS and the letter to INAC in early March, had undertaken to participate with other interested parties in collaborative socio-economic monitoring, specifically focusing on issues related to individual and community wellness. This monitoring would be outside the IIBA, and is similar in concept to that agreed for the Jericho and Doris North projects. Cumberland has agreed with GN, as a commitment, that Cumberland will initiate a process to agree on objectives, scope, terms of reference and roles and responsibilities for this monitoring before the issuance of any project certificate, with a goal of achieving agreement within six months	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
104	Cumberland agrees with GN that labor force adjustments, any pressures on physical and social infrastructure (including by emergency response planning), socio-economic impacts of public use of the access road, and community physical and mental health are issues that should be included in socio-economic monitoring	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchesne	
105	Cumberland also agrees with GN that consultation and traditional knowledge will be integral to socio-economic monitoring methodologies	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchesne	
106	Cumberland also agrees that socio-economic monitoring results will be used to make recommendations to participating parties on measures to address identified community wellness challenges. This would include recommendations for action by Cumberland where monitoring results indicate negative relationships between community wellness indicators and the project and/or opportunities for enhancing project benefits	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
			INAC advisory		INAC - JF Beauchesne	
107	Cumberland commits to engage throughout the life of the project with the GN Department of Education in Baker Lake on	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
	under the Apprenticeship, Trade and Occupations Certification Act o The working relationship between the Department of Education and Cumberland as this relates to Cumberland's training programs for its workforce o Information exchange on workforce preparation requirements o Cumberland's commitment under the IIBA to provide supervisory and management training	GN-Yes, Apprenticeship, Trade and Occupations Certification Act	Yes		Irene Tanuyak, Department of Education, Government of Nunavut (867) 975-5600	

No	Condition/ Commitment	Indicate whether your Regulatory Agency has any Statutory or regulatory authority for the Condition/ Commitment. If yes, please identify applicable legislation and approval instrument.	Indicate whether your Regulatory Agency can provide any expert advice for the Condition/Commitment. If yes, please identify source or reference.	In the absence of a specific statute, please provide indication of agency guidelines or other policies.	Key Contact name and information within Agency	Link to Commitment as numbered in Appendix A of Project Certificate
108	Information made available by or to Cumberland under the terms of the IIBA in the areas of support to businesses in accessing project opportunities will be forwarded to the GN	GN-No	Yes		Ed McKenna, Department of Economic Development & Transportation, Government of Nunavut (867) 975-7817	
109	Cumberland commits to discussions with the GN Petroleum Products Division at least annually for the purpose of planning project jet fuel requirements					
110	Cumberland commits to engage throughout the life of the project with the GN Department of Health and Social Services on					
	<ul style="list-style-type: none"> <li>o Cumberland's activities covered by all relevant health legislation, including health legislation relevant to operating mines with more than 50 employees</li> <li>o Cumberland's commitment under the IIBA to develop the annual Baker Lake Wellness Report and Implementation Plan</li> </ul>					
111	Cumberland's commitment under the IIBA to provide employment support including counseling workshops and programs					
112	Cumberland undertakes to develop an operational plan for the road which ensures maintenance of its status as a private road. Cumberland will develop this plan in collaboration with INAC, KIA, NTI, GN, and the Baker Lake HTO and Hamlet council		INAC advisory		INAC - Spencer Dewar	
113	Commitment to reassess archeology sites	GN-Yes, Nunavut Archaeological and Palaeontological Site Regulation, the NLCA Section 33, and the Nunavut Act Section 51 and 52.	GN-Yes, Guidelines for Nunavut Archaeological and palaeontological permit holders		Julie Ross jross@gov.nu.ca (Until April 2007) April 2007-April 2008 Doug Stenton dstenton1@gov.nu.ca	



# Appendix D

## Monitoring Program



## **A. Introduction**

In accordance with the Project Certificate issued by the NIRB on December 30, 2006 for the Meadowbank Gold Mine Project, this Appendix is designed to provide direction to Agnico-Eagle Mines Ltd (the Proponent), the NIRB's Monitoring Officer, Government departments and authorizing agencies with regard to the monitoring program established for the project pursuant to Section 12.7 of the Nunavut Land Claims Agreement (NLCA).

The purpose of the monitoring program shall be:

- (a) To measure the relevant effects of the project on the ecosystemic and socioeconomic environments of the Nunavut Settlement Area;
- (b) To determine whether and to what extent the project is carried out within the predetermined terms and conditions;
- (c) To provide the information base necessary for agencies to enforce terms and conditions of land or resource use approvals; and
- (d) To assess the accuracy of predictions contained within the Final Environmental Impact Statement (FEIS) for the project.

## **B. Proponent Responsibilities**

1. Implement a comprehensive post-environmental assessment monitoring program (PEAMP) for the project, in accordance with commitments made within the Final Environmental Impact Statement (FEIS), during the Final Hearing and as required throughout the Project Certificate. The PEAMP should be designed to work as an instrument of the Proponent's overall monitoring efforts, and should provide feedback to the NIRB and other agencies regarding ongoing project monitoring. The objectives of the PEAMP shall be to:
  - a. Measure the relevant effects of the project on the ecosystemic and socioeconomic environment(s). These effects may be measured through biophysical and socioeconomic monitoring programs undertaken by the Proponent or by other means as described in the Project Certificate;
  - b. Assess the accuracy of the predictions made within the FEIS;
  - c. Evaluate the effectiveness of project monitoring procedures and plans;
  - d. Identify impacts requiring additional mitigation or adaptive management; and
  - e. Provide relevant data and information to support regional monitoring initiatives where feasible.

The PEAMP must utilize, to the extent possible, the monitoring plans and programs as described in the FEIS, during the Final Hearing, and throughout the Project Certificate as well as all monitoring plans and/or reporting required by relevant authorizing agencies. Where applicable, any additional monitoring plans developed by the Proponent should be integrated within the PEAMP.

As part of the PEAMP, the Proponent is required to ensure that the NIRB is provided with up to date copies of all monitoring and mitigation plans for the project as such plans are developed, revised, amended or updated over the life of the project.

2. Submit an annual report to the NIRB at an agreed upon time each year until operations cease and the project site is fully reclaimed. The purpose of the annual report shall be to provide the NIRB and other parties with an update regarding the status of project operations, an overview of the site and its operations during the reporting period, as well as to provide a discussion of the observations made as a result of, or illustrated through, the monitoring program. The report is expected to contain the following information:
  - a. A discussion of how the Proponent has carried out the project in accordance with the terms and conditions of the Project Certificate during the reporting period. Instances where full compliance has not been achieved should be identified and explained using supporting rationale and suggestions for the resolution of outstanding issues.
  - b. A summary of the results from the PEAMP including an analysis of the project's impact to the environment with reference to the predictions and environmental and socioeconomic indicators used throughout the FEIS and Final Hearing, to be clearly cross-referenced to facilitate the reviewers' ability to locate such referenced information. This analysis should include:
    - i. Reference to baseline and monitoring data used to support impact predictions and effects conclusions, with a discussion of data collection and analysis methodologies employed;
    - ii. An evaluation of the effectiveness of any mitigation measures undertaken and, where relevant, a discussion of any exceeded thresholds, adaptive mitigation strategies employed and their effectiveness.
  - c. A comprehensive listing of all authorizations required for the project. This listing should also identify the status of all authorizations (i.e. application in progress, received, expired), the date of issue and date of expiry, and any requested renewals, updates, amendments or extensions to these authorizations;
  - d. A discussion of the compliance status of the project with respect to all authorizations and applicable regulations and guidelines, including responses to recommendations or direction issued by the NIRB or other agencies;
  - e. A summary of activities undertaken for the year, including any progressive reclamation work undertaken, and a work plan outlining activities anticipated to occur during the following year; site photos should be provided where useful for illustrative purposes;
  - f. A summary of public/community consultations undertaken and related results or implications for the project;
  - g. A listing of site-visits undertaken by federal, territorial, or other inspectors with a corresponding discussion of findings and follow-up actions; and,
  - h. Any other information required as outlined within the Project Certificate terms and conditions. [*Note: Conditions 4, 8, 15, 19, 23, 29, 32, 39, 40, 45, 56, 62, 63, 64, 67, 71,*

*72, 75, 76, 80, and 82 of the Project Certificate require the submission of some type of information to the NIRB.]*

3. Forward copies of all authorizations obtained for the project to the NIRB on an as-received basis.

### **C. NIRB Monitoring Officer's Responsibilities**

1. Fulfill responsibilities as outlined in the Project Certificate (Condition 2).
2. Advise the Proponent of its obligation to prepare and submit an annual report, due at an agreed upon date time each calendar year.
3. Review and distribute information collected and submitted by the Proponent and authorizing agencies.
4. Report at least annually to the Board with respect to the monitoring program as per Section 12.7.3(c) of the NLCA.
5. Provide the Proponent with any recommendations or direction issued by the Board regarding the monitoring program in a timely fashion.

### **D. Authorizing Agencies' and Government Responsibilities**

1. Provide any compliance monitoring and/or site inspection reports to the NIRB's Monitoring Officer annually at an agreed-upon time. These reports should contain the following information:
  - a. How the authorizing agency has incorporated the terms and conditions from the Project Certificate into their permits, certificates, licences or other government approvals, where applicable;
  - b. A summary of any inspections conducted, and the results of these inspections; and
  - c. A summary of AEM's compliance status with regard to authorizations that have been issued for the Project.