



September 15, 2006

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Doris Distribution List

Via Email: [dlong@miramarmining.com](mailto:dlong@miramarmining.com)

**Re: Doris North Gold Mine Project Certificate**

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The Nunavut Impact Review Board (NIRB or Board) is pleased to issue the attached Doris North Gold Mine Project Certificate.

NIRB's role is now to monitor the Doris North Gold Mine project in accordance with Part 7 of the Nunavut Land Claims Agreement (NLCA).

If you have any questions please do not hesitate to contact Stephanie Briscoe, Executive Director at 867-983-4603 or [sbriscoe@nirb.nunavut.ca](mailto:sbriscoe@nirb.nunavut.ca).

Yours Truly,

Elizabeth Copland  
Acting Chairperson for the Nunavut Impact Review Board

Encl. Doris North Gold Mine Project Certificate



## **1.0 Whereas:**

**A.** Pursuant to the *Nunavut Land Claims Agreement* (“NLCA”), the Board has considered the information submitted by Miramar Hope Bay Limited (“MHBL”) and has performed an environmental impact review of the Doris North Gold Project;

**B.** The Board has considered the list of commitments made by MHBL at the hearing (Exhibit 37), 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 MHBL 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 Doris North 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 offered some General Recommendations as found in the NIRB Final Hearing Report to the Minister.

## **2.0 Procedural (Project) History**

On March 1, 2002, MHBL, known as Hope Bay Joint Venture at the time, submitted a project description for the then entitled Doris Hinge Project (later renamed Doris North Gold Project (the “Project”)) to the NIRB. The project proposal was referred to a Part 5 Review by the Minister of Indian and Northern Affairs Canada (“INAC”) following a NIRB 12.4.4(b) Screening Decision.

After guideline development, draft and final environmental impact statements, and technical meetings, a Final Hearing was held from July 11 to 16, 2004, in the communities of Cambridge Bay, Gjoa Haven, Taloyoak and Kugluktuk. Following the Final Hearing the Board considered the evidence available to it and decided that it could not approve the Project based on insufficient information in five key areas: the assessment of alternatives to the use of Tail Lake for tailings disposal; Tail Lake water quality and water management strategy; the design of the jetty and related issues including effects on fish habitat, shoreline erosion, and the sea bed; the Wildlife Mitigation and Monitoring Plan (“WMMP”) including Cumulative Effects Assessment (“CEA”); and the socio-economic impact of the Project on affected residents and communities of Nunavut. On December 6, 2004, the Minister of INAC accepted NIRB’s report and the recommendation of not approving the Project

MHBL began working on an Updated Preliminary Project Description which was received by NIRB on February 14, 2005. Following an abbreviated screening process, the Board once again issued a Screening Decision of 12.4.4(b) stating that the Project required a review under Part 5 or 6 of Article 12 of the NLCA. The Minister agreed and referred the Project to a second Part 5 Review by NIRB and provided the following direction to NIRB in conducting the review:

*“...a major objective of this review should be to address the information deficiencies, as outlined in the Board’s August (2004) Final Hearing*

*Report. However, it is essential that this new information is not reviewed in isolation and that the potential effects of the Project as a whole are considered. The submission of a complete and new environmental impact statement that incorporates any new information provided by the proponent will help achieve this goal while providing for a more efficient review of the Project”.*

The original guidelines developed for the Project remained the basis for the submission of MHBL’s Draft Environmental Impact Statement (“DEIS”) and were supplemented by the direction provided by the Board in its August 2004 Final Hearing Report and NIRB’s 10 Minimum EIS Requirements.

MHBL filed a DEIS on June 13, 2005, and a Conformity Review was undertaken by NIRB. NIRB solicited input into the Conformity Review from interested persons including Intervenor. Following Conformity Review, on July 8, 2005, NIRB advised MHBL of deficiencies in the DEIS. MHBL submitted a supplement to the DEIS on July 21, 2005, to address the deficiencies and Intervenor were then asked to complete a technical review of the DEIS prior to holding a Technical Meeting.

On August 23 to 25, 2005, NIRB staff held a Technical Meeting in Yellowknife with MHBL and Intervenor from Nunavut Tunngavik Inc. (“NTI”), Kitikmeot Inuit Association (“KIA”), INAC, Department of Fisheries and Oceans Canada (“DFO”), Government of Nunavut (“GN”), Natural Resources Canada (“NRCAN”), Environment Canada (“EC”), Health Canada (“HC”), and Hatch Acres. In addition, four representatives from each of the Hamlets of Cambridge Bay, Gjoa Haven, Kugluktuk, and Taloyoak attended the Technical Meeting. The purpose of the meeting was to discuss and resolve significant technical issues prior to the Preliminary Hearing Conference (“PHC”). The PHC was held on August 25, 2005, at the same location.

On September 13, 2005, the Board issued a PHC decision which provided MHBL with specific direction on requirements for the Final Environmental Impact Statement (FEIS) and administrative details for the FEIS technical review and a potential Final Hearing. The PHC decision also contained a list of 187 commitments MHBL made during the Technical Meeting. The timeline for filing the FEIS was left up to MHBL and was eventually hand-delivered by them, with the supporting documents, to the Cambridge Bay office on October 31, 2005. This effort evaded any potential delivery setbacks and secured MHBL with priority status for NIRB’s FEIS internal conformity review.

NIRB’s internal conformity review focused on the new content in the FEIS ensuring it responded to the direction provided by the Board in the PHC decision. The internal conformity review found that the FEIS generally conformed to the PHC decision but that an addendum would be required. Nevertheless, in the meantime NIRB was satisfied that it could proceed with setting the dates of the Final Hearing for the week of January 30 to February 3, 2006, in Cambridge Bay.

NIRB received the FEIS addendum on November 18, 2005, and an additional letter from MHBL on November 24, 2005 confirming additional community consultation for December 2005. This satisfied all outstanding areas of non-conformity in the FEIS.

During the FEIS technical review period, NIRB established a process for an information request period. NIRB received a total of 22 information requests and of those requests approved 14 for MHL to respond to. On December 9, 2005, MHL provided responses to the 14 information requests and Intervenor and NIRB staff began detailed preparations for the Final Hearing.

Written submissions from Intervenor were received by NIRB on January 18, 2006. However, following discussions between MHL and EC and DFO concerning a regulatory matter, MHL submitted additional information attempting to resolve the issue. In order to allow EC and DFO sufficient time to review the information and incorporate it into their written submission, NIRB allowed EC and DFO until January 24, 2006, to provide written submissions to NIRB.

The Final Hearing was held in Cambridge Bay from January 30 to February 3, 2006. The first day of the proceedings was delayed until the afternoon due to the late arrival of the GN, EC and DFO whose joint charter, which was only scheduled to leave Iqaluit on the same morning of the Final Hearing, went mechanical. NRCAN also arrived late to the hearing after a scheduled flight from Yellowknife was cancelled. Fortunately, all Intervenor eventually arrived safely and the Final Hearing progressed throughout the week and ended with a full day community session on February 3, 2006. The Final Hearing was well attended with approximately 100 people present each day.

The NIRB submitted its Final Hearing Report to the Honorable Minister Jim Prentice, of Indian Affairs and Northern Development, on March 6, 2006. Minister Prentice approved the Terms and Conditions of the Report on August 1, 2006. The NIRB then held meetings between government departments and agencies for the development of the Project Certificate on August 24th and 25th, 2006. These meetings are contemplated by Part 9 of Article 12 of the NLCA.

## **2.1 Project Description**

The Doris North Gold Project, proposed by MHL, is located approximately 65 km to the east of Omingmaktok and 110 km south of Cambridge Bay on the Canadian mainland. The project proposal is the first gold mine in Nunavut and the first mine proposal to be located on Inuit Owned Lands with mineral rights.

The project consists of an underground mine with a single adit and ramp access and will have a small footprint of about 62 ha. The ore will be stockpiled and processed through a crushing and milling plant with a capacity of 668 tonnes per day. The gold product will be shipped off site in the form of dore bars. This Project is expected to operate for 24 months, process 458,000 tonnes of ore yielding approximately 306,830 ounces of gold.

The site is remote, with no roads that link it to any communities or facilities, and therefore primary access to the property for fuel, equipment and supplies will be by sealift via the Arctic Ocean. A 103-m jetty will be constructed in Roberts Bay as well as a laydown area.

The mill will be located approximately five kilometres south of Roberts Bay. A 4.8-km all-weather road will link the Roberts Bay site with the mill site where all other operational mine infrastructure will be located adjacent to the underground mine.

An all-weather airstrip will be constructed along the alignment of the main road between the mill site and Roberts Bay. During summer months the site will also be serviced by float planes and for that purpose a rock-filled dock will be constructed on the shore of Doris Lake. This dock will be linked to the mill site with an all-weather road.

During winter months an airstrip capable of handling larger aircraft will be constructed on the ice on Doris Lake and the site will be serviced from this airstrip.

Tailings produced during the milling process will be deposited in Tail Lake about five kilometres from the proposed mill location. Tailings deposition will be sub-aqueous, requiring the construction of two dams. An all-weather service road will be constructed along the east side of Tail Lake all the way to its southern end. The tailings pipeline will follow the roadway, and emergency tailings dump ponds will be constructed at strategic locations.

Mill tailings will be treated in a water treatment plant to destroy residual cyanide and precipitate heavy metals before the tailings are discharged into Tail Lake.

MHBL proposes that the water quality discharged by pumping from Tail Lake to Doris Creek will meet discharge standards established under the Metal Mining Effluent Regulations ("MMER") and that water quality within Doris Creek, downstream of the waterfall, will meet Canadian Council of Ministers of the Environment ("CCME") water quality guidelines for the protection of freshwater aquatic life.

Project construction is currently proposed to begin with the arrival of equipment by sealift in the fall of 2007, with additional supplies arriving by sealift in 2008. With this construction schedule, operations could begin at the end of 2008 and continue through to the end of 2010. The Project is expected to provide approximately 68 jobs during construction and 149 jobs during operations with approximately 40% Inuit employment.

With the completion of mining and ore processing, MHBL will shift from progressive reclamation to implementing a final abandonment and reclamation plan which is proposed to occur during the summer months of 2011 and 2012. Following the closure phase, the site will be managed during summer months to pump water from Tail Lake during the open water season. The north dam is proposed to be breached once water quality in Tail Lake meets CCME guidelines and the water level returns to predevelopment level.

Finally, in looking forward, the Doris North Project (Doris north gold deposit) is located within a geological structure known as the Hope Bay Greenstone Belt which is about 80 km in length and known to contain at least two other mineralized zones owned by MHBL. Regarding potential future developments, which are also subject to full impact assessments in the future, MHBL states the following:

*The Doris North Project is only a small portion of the resources that we have found in the belt to date. We did a lot of work in 2005, and we expect that these resources will actually increase again as we re-measure them at the end of 2005. And these resources demonstrate the potential for large size and long-life production from the Hope Bay Belt in the future.*

### **3.0 Implementation of Project Certificate**

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. While NIRB has every reason to believe MHLB will meet its obligations under this certificate, NIRB may nevertheless 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 KIA 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.

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 Miramar Hope Bay Limited subject to the following terms and conditions:**

### **4.0 Project Specific Terms and Conditions**

In addition to the project specific terms and conditions below, MHLB must comply with or obtain 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 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)

MHLB 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.

### **Proponent’s Commitments:**

1. The commitments in the Final Hearing Report as Appendix A (see Appendix A of Project Certificate): MHLB Commitments from the Final Environmental Impact Statement Review, are incorporated herein and must be met.

*Commentary:* The commitments in the Final Hearing Report as Appendix A includes the addendum to the Final Hearing Report dated June 22, 2006.

2. The commitments in the Final Hearing Report as Appendix B (see Appendix A of Project Certificate): MHBL Commitments from the Final Hearing, are incorporated herein and must be met.
3. MHBL must obtain all required federal and territorial permits and other approvals and shall comply with such permits and approvals.

**NIRB's Commitments:**

4. NIRB will require a full time Monitoring Officer to monitor the Project as it proceeds and to analyze the success of the Terms and Conditions as the Project becomes operational, and beyond, to closure and reclamation.

**The Assessment of Alternatives to Tail Lake for Tailings Disposal:**

5. MHBL shall report by January 1<sup>st</sup> of each calendar year to NIRB on MHBL's development plan for future phases of the Hope Bay Belt, including identifying development plans that may affect the selection of Tail Lake as the preferred alternative for tailings management.
6. MHBL shall immediately notify NIRB of any further alternatives assessments of the Tail Lake tailings impound area, if that analysis concludes that Tail Lake may no longer be the preferred option for tailings disposal.
7. MHBL shall meet immediately with Environment Canada and the Department of Fisheries and Oceans Canada to ensure the information required for Schedule 2 of the Metal Mining Effluent Regulations can be processed according to law.

**Tail Lake Water Quality and Water Management Strategy:**

**Monitoring:**

8. MHBL will fund and install a weather station at the mine site to collect atmospheric data, including air temperature and precipitation. The design and location of this station shall be developed in consultation with Environment Canada officials.

Commentary: Prior to closure and reclamation, NIRB expects MHBL to undertake consultation with appropriate agencies including INAC and EC, to discuss the possibility of the continued operation of the station, including transfer of ownership, for the collection of regional meteorological data

9. MHBL will fund and install an on-site laboratory for continuous and real-time monitoring of water quality contained within Tail Lake and Doris Creek after discharge. This will be done prior to the commencement of operations. The laboratory shall be certified, with standards to include the calibration of water quality monitoring instruments. MHBL shall file proof of application to become accredited, upon the request of the NWB or NIRB's Monitoring Officer.

Commentary: The laboratory certification should be appropriate for environmental (water quality) analysis purposes. Parameters to be analysed shall be set by the NWB.



10. Upon the commencement of operations, MHBL shall ensure that the monitoring of Tail Lake and Doris Creek water quality, above and below the waterfall, be verified and reported to NIRB three times during discharge by an independent, third party laboratory. The sampling must be carried out independently or supervised in which case MHBL must provide the sampling and delivery of samples to the independent, third party laboratory, with copies of the results directly to the NWB and NIRB's Monitoring Officer.

*Commentary: The NIRB's preference is for independent, third party sampling. In the case where MHBL collects its own samples, the sampling shall be conducted in accordance with a methodology approved by NWB through a Quality Assurance /Quality Control ("QA/QC") plan and must be submitted to an independent third party laboratory for analysis. For Tail Lake the commencement of operations is defined as when tailings are deposited into the lake. For Doris Creek, the commencement of operations is defined as the time at which discharges from Tail Lake begin.*

11. Monitoring information collected under this approval shall contain the following information:
  - a. The person(s) who performed the sampling or took measurements;
  - b. Date, time, and place of sampling or measurement;
  - c. Date of analysis;
  - d. Name of the person who performed the analysis;
  - e. Analytical methods or techniques used; and
  - f. Results of any analysis.

12. The results and records of any monitoring, data, or analysis shall be kept 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, DFO, EC or the NWB.

*Commentary: The NIRB's Monitoring Officer, consulting with Government Officials, will provide guidance on how results and records of any monitoring, data, or analysis will be presented.*

### **General**

13. MHBL shall collect additional water quality data for the 2006 field season and incorporate it into a revised water quality model to be submitted to the NWB as part of the water licence application. MHBL will meet discharge criteria on a site specific basis set by the NWB where possible, for the protection of the receiving environment at the point of discharge.
14. MHBL shall collect additional precipitation, evaporation and runoff data and incorporate it into a revised water balance to be submitted to the NWB as part of the water licence application.
15. MHBL shall not permit the water discharged into Doris Creek to exceed the criteria set by the NWB.
16. MHBL shall take all reasonable steps to prevent any Tail Lake discharge in violation of the Project Certificate or regulatory approvals that may have any

likelihood of negatively affecting the environment including wildlife, fisheries, aquatics, and human health. If such a situation is encountered, MHBL shall take immediate action to remedy the violation. If requested by the NWB, MHBL shall accelerate testing or monitoring to determine the nature of any such discharge and its impact or harm to the environment.

17. MHBL shall report any upset, exceedances, or compliance problem not only to regulatory agencies as required by law, but shall also report the same to NIRB's Monitoring Officer.
18. MHBL shall submit to the NWB, as part of the water licence application, a program detailing the methodology for testing quarried rock for acid generation and metal leaching potential. The sampling, testing and analysis must be done by a professional geologist registered in Nunavut.

*Commentary:* NIRB expects any methodology to be certified by a Registered Professional and approved by the NWB. NIRB expects that any analysis of laboratory results must also be done by a Registered Professional. The designation of Registered Professional refers to all those professionals registered with NWT and Nunavut Association of Professional Engineers, Geologists, and Geophysicists (NAPEGG)

#### **Design of the Jetty and Related Issues:**

19. MHBL shall install thermistor cables and temperature loggers in the jetty foundation. MHBL shall monitor the effects of the jetty on shallow water permafrost through operations and report the results of the monitoring collection to NIRB's Monitoring Officer.

*Commentary:* NIRB's Monitoring Officer will provide guidance to MHBL on data reporting requirements and will, in consultation with MHBL, distribute MHBL's data to interested Parties including NRCan.

20. MHBL shall ensure the use of containment booms and berms to control potential spills whenever fuel and or waste is transferred between a barge and the shore. MHBL shall ensure spill kits are at hand at these locations at all times.
21. MHBL shall consult with local Elders, KIA and NTI to determine **if** the jetty should be dismantled. The final Closure and Reclamation Plan, if it proceeds, must explain the consultation process used for the jetty and provide a summary of the issues identified during consultation.

*Commentary:* NIRB has already considered these components and as quoted by the Minister in his letter to NIRB dated July 28, 2006 "...further review under Article 12 would only be required if substantive changes were proposed that would significantly modify the project." Also, MHBL is expected to submit the summary of issues identified during consultation to NIRB's Monitoring Officer.

**Wildlife Mitigation and Monitoring Plan including Cumulative Effects Assessment:**

22. MHBL, in consultation with GN-DoE and KIA, shall immediately begin the design and implementation of baseline data collection methods to establish both the wolverine and grizzly bear population of the Hope Bay Belt region. Any baseline data results shall be reported to NIRB's Monitoring Officer.
23. MHBL shall designate one of its employees as a primary wildlife contact for the mine, who will work with NIRB's Monitoring Officer and regulatory officials in communicating on-site activities and to fulfill reporting requirements.
24. As part of the training for MHBL's on-site wildlife specialist, MHBL shall provide training to that person in areas of bear encounters and safety, effects of noise on wildlife, recording wildlife sightings, waste management, records management, and reporting to NIRB's Monitoring Officer and regulatory officials.
25. MHBL shall file a monitoring plan focused on assessing and mitigating interaction between humans and wildlife at the mine site, including associated infrastructure such as the TIA (Tailings Impoundment Area), roads, and activity at the waterfall. A quarterly report must be sent to NIRB's Monitoring Officer on interactions that have occurred, any effect the interaction may have had on humans and wildlife, and mitigation measures taken to avoid similar interactions in the future.
26. MHBL shall consult with local Elders, Kitikmeot Hunters and Trappers Organizations, the Nunavut Wildlife Management Board, GN-DoE, and NIRB's Monitoring Officer to review and discuss the results of wildlife monitoring and develop mitigation measures, including measures to discourage wildlife and birds from coming into contact with Tail Lake and contaminated areas of the mill site. MHBL shall incorporate a plan for this consultation into a revised Wildlife Monitoring and Mitigation Plan.

*Commentary:* Consultation under this section should include EC

27. MHBL shall update and revise the Wildlife Mitigation and Monitoring Plan to reflect these terms and conditions and shall submit the revised Wildlife Mitigation and Monitoring Plan to NIRB. NIRB may consult with relevant Government departments and the Nunavut Wildlife Management Board prior to approving the revised Wildlife Mitigation and Monitoring Plan. The Wildlife Mitigation and Monitoring Plan must be submitted within three (3) months of the issuance of a Project Certificate and it must be approved by NIRB prior to the commencement of construction. MHBL must also submit an updated plan on an annual basis which must also be approved by NIRB.

*Commentary:* NIRB expects the annual plan to include the quarterly plans and the fourth quarter report then becomes part of the annual report.

## **The Socio-Economic Impact of the Project on Affected Communities of Nunavut:**

28. Within six (6) months of the issuance of a Project Certificate, a Hope Bay Belt Socio-Economic Monitoring Committee ("SEMC") shall be formed to supplement, not duplicate areas covered by the Inuit Impact Benefit Agreement negotiated for this project. In order to ensure consistent data collection and tracking of data trends in a comparable form to be shared at the regional level and to minimize the duplication of efforts, the composition of the SEMC should include the same membership as the Kitikmeot Socio-Economic Monitoring Committee approved by the Minister. Additionally, the SEMC must engage the affected communities of Cambridge Bay, Kugluktuk, Gjoa Haven, Taloyoak, and NIRB's Monitoring Officer, and consider concerns from Bathurst Inlet and Omingmaktok. In consultation with these parties and immediately upon the SEMC's formation, MHBL shall provide the terms of reference for a socio-economic monitoring program to the SEMC for review and subsequent direction by NIRB. The terms of reference are to include the role of MHBL in data collection and analysis; the key socio-economic indicators to be monitored; the reporting requirements; and the funding formula.

*Commentary: NIRB strongly suggests the use of a standardized reporting template to ensure consistent data collection and tracking of data trends in a comparable form to be shared upon request at the regional level and to minimize the duplication of efforts.*

## **Noise:**

29. MHBL shall develop and implement a noise abatement plan to protect people and wildlife from mine activity noise, including blasting, drilling, equipment, vehicles and aircraft. The noise abatement plan will be developed in consultation with GN-DoE, EC and HC, and includes: restrictions on blasting and drilling when migrating caribou, birds or local carnivores may be affected; the establishment of strict standards for noise levels; use of equipment and vehicles with the best noise attenuation devices; when practical, the use of fences or berms around noisy machinery or sites; flight corridor restrictions over sensitive areas with known concentrations of wildlife and birds whenever possible; and requiring with the exception of take off and approach for landing, a minimum flight altitude of 300 metres above ground level when flights to and from the mine site are passing near sensitive wildlife and bird areas. The noise abatement plan will also incorporate the use of sound meters to monitor sound levels at sites in and around the mine site and local study area. The location and design of the sound meters shall be selected in consultation with EC and set up immediately upon issuance of the Project Certificate for the purpose of obtaining baseline data, and during and after operations. The final noise abatement plan shall be filed with NIRB's Monitoring Officer within six (6) months of the issuance of the Project Certificate.

*Commentary: The Local Study Area refers to the combined spatial boundaries set by MHBL in its FEIS for each sensitive VEC including arctic char, lake trout, lake whitefish, ninespine stickleback, caribou, grizzly bear, wolverine, upland breeding birds, waterfowl, and raptors. Also the noise abatement plan will consider potential blasting time restrictions with the DFO's Guidelines for the Use of Explosives In or*

*Near Canadian Fisheries Waters (Wright and Hopky, 1998) as modified by DFO for use in the North. MHL should also consult with Health Canada, the GN-DoE, and the Workers Compensation Board in locating and designing the sound meters.*

**Air Quality:**

30. MHL will install and fund an atmospheric monitoring station. This station and its location shall be developed in consultation with EC and HC air quality officials and focus on particulates of concern generated at the mine site. The results of air-quality monitoring are to be reported every six (6) months to NIRB through the Monitoring Officer, and from there to all of the parties.

*Commentary: NIRB expects the Canada Wide Standards for Dioxins and Furans and the Canada Wide Standards for Mercury will apply and should be followed including stack testing of incinerators.*

**Closure and Reclamation:**

31. A complete Closure and Reclamation Plan prepared in accordance with the NWB requirements shall be filed by MHL at the time MHL makes application to the NWB for a water license for the mine.

*Commentary: The complete Closure and Reclamation Plan includes the jetty.*

**Environment, Health and Safety Management System:**

32. Prior to the commencement of operation MHL shall have a complete Environment, Health and Safety Management System in place which includes the following: Wildlife Mitigation and Monitoring Plan; Environmental Protection Plan; Emergency Response and Spill Contingency Plan; Occupational Health and Safety Plan; Reclamation Plan; Education and Orientation Plan; Human Resources Plan; Inuit Involvement Plan; Community Relations Plan; Monitoring and Follow-up Plan; and Auditing and Continuous Improvement Plan. When complete, these Plans shall be forwarded to NIRB's Monitoring Officer.

*Commentary: MHL is expected to contact federal and territorial Government Departments immediately regarding the preparation of these plans. The GN, in particular, is involved with the approval of many of the plans and is encouraged to designate an official to approve the plans as applicable. Please see Appendix E for a list of GN contacts.*

*NIRB considers the Environmental, Health and Safety Management System to be complete once MHL has submitted all required plans. NIRB expects the Environmental Health and Safety Management System to be completed prior to the commencement of construction.*

**Fuel and Hazardous Materials:**

33. MHBL shall ensure that areas used to store fuel or hazardous materials are contained using the safest methods practically available.

Commentary: *"Practically" refers to the best available engineering methods.*

**Planned Changes:**

34. If it becomes necessary, MHBL shall give notice of any planned changes to the mine facility, including Tail Lake and its operation, to the regulatory authorities and NIRB through its Monitoring Officer, immediately.

Commentary: *"Planned Changes" refers to changes that may cause an environmental effect. Please see related Terms and Conditions #17, #5, and #6.*

**Duty to Comply:**

35. MHBL shall comply with all terms and conditions and any noncompliance 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

### Air Quality

1. Use of an aggressive fuel conservation effort;
2. Use of a brine solution for dust suppression in the underground mine;
3. Use of coarse rock in roads, airstrip, building pads and laydown areas to minimize dust during construction;
4. Driving at designated speeds on site roads;
5. Application of water to roadways to reduce dust from ore and waste rock haulage and grading to a minimum;
6. Installation of dust covers, sonic sprays, etc. to suppress dust generation from equipment in the crushing facility;
7. Installation of a dust scrubber on the smelting off-gas stream;
8. Submerged release of tailings deposition to avoid tailings dust emissions;
9. Installation of a waste oil burner unit equipped with a settling tank and filter system for particulate removal from the waste oil;
10. Regular servicing of all mobile and stationary engines to maintain efficiency;
11. Proper equipment maintenance; and
12. Adherence to all permits, authorizations and approvals.

### Noise

1. Buildings, structures and material stockpiles will act as physical barriers to noise particularly for outdoor exposed equipment;
2. Most powered equipment will be enclosed in insulated buildings;
3. Proper equipment maintenance;
4. There will be noise monitoring in the mill for occupational health and safety;
5. The on-site Environmental Manager will also conduct routine inspections of the Project operations and look for possible mitigation opportunities.
6. Adherence to all permits, authorizations and approvals

### Water Quality

#### *TSS*

1. Installing silt curtains in localized areas of permafrost degradation; and
2. Applying geo-textile materials or rip rap to areas where slumping is observed to stabilize the shoreline.

#### *Runoff*

3. Identifying and using quarry rock that has a low acid generation and metal leaching potential;
4. Implementing industry best practice methods for explosives use, which will limit residual nitrite and nitrate present in quarried and waste rock;
5. Completing winter construction of the roads and building pads, which will mitigate the risk of sediment release during construction; and



6. Implementing industry best practices for sediment control and storm water management during and after construction to collect surface runoff, and discharging runoff to the tailings containment area, where the sediments would have the opportunity to settle out.

#### Permafrost

1. Additional thermistors will be installed during construction.
2. Reading of these thermistors will be included in routine site monitoring programs to ensure that the condition of the permafrost in close proximity to the key mine activity centres is being monitored to ensure that the permafrost integrity is being maintained through the planned design and mitigation strategies.

#### Vegetation (Chapter 4)

1. Avoiding, or reducing, impacts to vegetation units during project planning by re-using previously disturbed areas, where possible;
2. Avoiding, or reducing, impacts to rare species;
3. Implement dust suppression methods (*i.e.*, spraying with water) on the airstrip and roads during the snow/ice free period;
4. Apply water to roadways to reduce dust from ore and waste rock haulage and minimizing grading;
5. Install dust covers and sonic sprays to suppress dust generation from equipment in the crushing facility;
6. Install a dust scrubber on the smelting off-gas stream;
7. Re-contouring closure landforms and placing materials to ensure that the final topography and site conditions are similar to other vegetation units of the same type in the region;
8. Allow areas to revegetate during operations (*e.g.*, progressive) and promoting natural vegetation regeneration throughout the mine life; and,
9. Using adaptive management approaches to ensure that advances in revegetation research are included in final closure planning efforts.

#### Jetty

1. Constructing the jetty of clean, crushed rock that has been certified as having low acid generation potential and low metal leaching potential; and
2. Use of silt curtains, as required to reduce suspended sediment to a level to meet the federal CCME (1999) water quality guidelines.
3. The construction will be timed (*i.e.*, early July) to avoid the spawning migrations of capelin during the end of July (Supporting Document F4); and
4. Monitoring measures are outlined in Chapter 6 of the Technical Report. Construction activities will be monitored on terms and conditions of permits and approvals.

Caribou

1. Integration of *Inuit Qauajimajatuqangit* into monitoring programs;
2. Restricting the mine surface footprint to a small and confined area of 53 ha;
3. Minimizing the amount of clearing;
4. Reduce noise by use of muffled exhaust systems;
5. All diesel powered equipment will meet emission guidelines;
6. Minimum flying altitude of 300 m above ground level for cargo and passenger aircraft outside of the Project area;
7. Vehicles restricted to designated roads and prepared work areas (*i.e.*, recreational use of off-road vehicles is prohibited);
8. Implement dust suppression methods (*i.e.*, spraying with water) on the airstrip and roads during the snow/ice free period (chemical dust suppressants will not be used);
9. Install dust covers and sonic sprays to suppress dust generation from equipment in the crushing facility;
10. Install a dust scrubber on the smelting off-gas stream;
11. Conducting pre-project surveys to identify wildlife sensitive locations and protected areas for avoidance;
12. Reclaiming areas during operations (*e.g.*, progressive) and promoting natural vegetation regeneration throughout the mine life;
13. Wildlife awareness and sensitivity training for on-site personnel;
14. Participation in the Bathurst Caribou Management Committee;
15. Implement caribou crossing locations along the road based on local information from the Hunters and Trappers Associations and KIA, among others;
16. Give caribou the right-of-way (*i.e.*, all vehicles must stop when wildlife are on the road or approaching);
17. Allowing natural encroachment of vegetation on and near roads, airstrip and the active mine site;
18. Use of Inukshuks or other initiatives determined through consultation with Elders to deter Caribou from site.
19. Establishing and enforcing speed limits;
20. Implementing procedures for the safe removal of caribou from hazardous areas (*e.g.*, roads and airstrip);
21. Warning drivers when caribou are moving through the area.

Grizzly Bear

1. Integrate *Inuit Qauajimajatuqangit* into education, monitoring and response programs;
2. Education and reinforcement of proper waste management practices to all workers and visitors to the site;
3. Implement appropriate waste management protocols, including burning all food wastes in an oilfired incinerator;
4. Eliminate attractants (*e.g.* food waste, oil products) at the landfill site;
5. Separation of food waste and non-food waste at source;

6. Appropriate fencing around the landfill area;
7. Burn waste oil in waste-oil furnaces or taken off-site for recycling;
8. Designate contained areas for worker lunch and coffee breaks;
9. Educate people on the risk associated with feeding wildlife and careless disposal of food garbage; and,
10. Ongoing review of the efficacy of the waste management program and adaptive improvement.

#### Breeding Birds & Waterfowl

1. Conduct land clearing for site infrastructure (*e.g.*, building pad construction and roads) outside of the breeding season;
2. Prevent nesting on mine infrastructure and man-made structures;
3. If a nest site is established and eggs are present, avoid the nest as much as possible and monitor for nest success.

#### Raptors

1. Incorporate *Inuit Qaujimajatuqangit* into operations and monitoring programs;
2. Prevent raptors from nesting on mine infrastructure;
3. If a nest is established within the mine footprint and eggs are present, avoid the nest as much as possible and monitor for nest success.
4. Establishing and enforcing speed limits;
5. Reporting all accidental deaths or injury to raptors as a result of vehicle or aircraft collisions, so that mitigation can be adaptively managed.

#### Archaeology

1. All construction activity in the vicinity of the remains will cease immediately.
2. The project archaeologist and Territorial Archaeologist will be contacted. Then the potential significance of the remains will be assessed; and mitigative options will be identified.
3. If the significance of the remains is judged to be sufficient to warrant further action and they cannot be avoided, the project archaeologist in consultation with the Territorial Archaeologist, will determine the appropriate course of action.
4. In the case of human remains, the RCMP will be contacted. In addition, a Coroner and/or physical anthropologist may be involved, if necessary. If the remains are determined to be archaeological, representative of local communities as well as the Inuit Heritage Trust will be consulted to determine how to handle the remains.
5. An education program will ensure that all personnel involved in exploration and development activities are aware that heritage resources are protected by law and that if any archaeological, historic or human remains are uncovered during any such activities, these remains must be reported and disturbance must cease until the remains are dealt with appropriately. The Territorial Archaeologist of the Government of Nunavut will be notified and a qualified archaeologist will assess the incident.

Health Services

1. All employees will undergo a pre-employment medical. This will ensure that the site medical staff are able to provide the best care and treatment to employees as the site is remote from full medical services;
2. Qualified medical personnel will be available at site twenty-four hours a day and seven days a week. They will be able to treat minor illnesses. As employees will spend half of their time at site, this should relieve some burden from the local health facilities;
3. Emergency response and contingency plans are in place for medical evacuation if required;
4. Alcohol and drug education will be provided to all employees and the site will continue to be an alcohol and drug free operation;
5. Miramar will continue to follow health guidelines, procedures and protocols for camp food. Waste handling and storage will meet all appropriate territorial regulations and standards to avoid any health concerns for employees;
6. Communication and cooperation processes have been put in place with medical personnel in the camps, the Nunavut HSS, the Yellowknife hospital, appropriate monitors and inspectors, and regional health authorities. The new health Centre that opened in Cambridge Bay in 2005 will also provide a higher level of service;
7. All Project contractors and subcontractors are bound to the guidelines, procedures and protocols developed by Miramar;
8. Miramar will provide government inspected country food periodically at the mine site. During operations the medical staff will be able to provide information on diet and nutrition;
9. To avoid employee injury, Miramar will ensure that safety is the highest priority for the Project;
10. Miramar will ensure transportation equipment is regularly inspected for safety; and
11. Miramar will take safety into account when planning contractor delivery schedules.

Safety and Protection Services

1. Miramar will liaise with the RCMP and produce regular updates on project activities and plans that could influence RCMP workloads, communications between camp management and RCMP, and efficiency of RCMP response to calls for service from the camps and from project-related community calls; and
2. Miramar will conduct criminal record checks prior to hiring employees to screen out those convicted of crimes of violence such as sexual assault.
3. Miramar will provide counseling and life skills training workshops.

### Social Services

1. In order to support the emotional health of employees and avoid burden on community facilities, Miramar will make available a number of methods of communications for workers with their families such as telephone and Internet.
2. Miramar plans to keep family groups or community groups of workers together for support while away from home;
3. Miramar will conduct an extensive orientation program to ensure that all workers are given full training, understand Miramar policies and procedures and have support to adjust to camp life; includes full safety training;
4. Miramar will provide a workplace where individuals are treated in a fair, equitable and respectful manner to attract and retain good workers and reduce stress on employees;
5. Miramar will provide an issues resolution process for employees to be able to resolve any grievances and issues to avoid undue stress and pressure;
6. As much as possible, Miramar will encourage opportunities for Inuit to speak and maintain their own language while at the same time operating in the language of the camp as long as safety of the employee, others or job performance are not compromised;
7. Alcohol and drug education will be provided to all employees and the site will continue to be an alcohol and drug free operation; and
8. Miramar will provide to all employees a free and confidential Employee and Family Assistance Program (EFAP) that will provide emotional, psychological and mental health counseling for employees and their immediate families for work stress, marital and family issues.

### Employment

1. Provide the support of a Manager, Community Relations to support community liaison and facilitate workers integration into the work force;
2. Provide a workplace where individuals are treated in a fair, equitable and respectful manner in order to attract and retain workers;
3. Provide free flights to mine employees travelling to and from work between the four key communities and the mine site. The flights will not go through Yellowknife. MHBL will consider flights to other communities as appropriate to attract and retain Inuit workers;
4. Raise the level of understanding about the type of employment opportunities in the mining industry so that the key communities can make informed choices and about employment and career opportunities;
5. Provide hamlets, and education and training institutions within the four key communities with list of potential jobs, education/training requirements and certificates and transferable skills to other jobs for which individuals might be qualified;
6. Work with hamlets and training institutions to develop skills assessment and community databases of potential mine site trainees and workers, taking into consideration privacy and other applicable legislation;

7. Work with employment personnel in the key communities to develop a strategy that helps each hamlet retain sufficient skilled individuals to effectively manage the Hamlets;
8. Miramar will strictly enforce the Harassment Policy that states that harassment of any kind is not tolerated, will be investigated and discipline may include termination;
9. Miramar will provide an issues resolution process to ensure the employees grievances and issues are dealt with in a timely and appropriate manner so they do not consider leaving the company;
10. Provide ongoing support for employees of the four key communities and other northern hires that recognize cultural differences at the worksite;
11. Identify and communicate project employment opportunities early in project development;
12. Raise the level of understanding about the type of employment opportunities in the mining industry so that the key communities can make informed choices and about employment and career opportunities;
13. Communicate employment opportunities and skill requirements to interested organizations, government agencies and communities, in an open, transparent and timely fashion in cooperation with each hamlet, the KIA, and the appropriate government departments and agencies by postings in public places, on the Internet, and in local and government agencies and departments;
14. With KIA collaboration, design and implement an Inuit recruitment strategy to ensure that every effort is being made to recruit employees from Nunavut and particularly the four key communities;
15. Require contractors and subcontractors to structure Inuit and northern employment policies and plans, complete with reporting and monitoring systems, to comply with the Miramar's benefits plans and agreements, and their commitments to employ workers from the four key communities and other northern communities;
16. Establish on-the-job support systems and resources to help develop worksite and life skills;
17. Require employees to be age 18 for employment during construction and operations (except specific student programs). This is governed by Miramar employment policies and the Mines Act with regard to underground mining. This will deter youth from leaving school to work on the Project; and
18. Work proactively with contractors, unions, communities, educational institutions and government agencies to develop and recruit qualified workers.

### Economy

1. A commitment has been made to facilitate workshops for workers and their families regarding money management, budgeting and retirement planning so that workers can make informed choices about how they spend their money.

### Education and Training

1. Work with employment personnel in the four key Hamlets to develop a strategy that helps each Hamlet retain sufficient skilled individuals to manage the Hamlet effectively;
2. Establish on-the-job support systems and resources to help develop worksite and life skills;
3. Before construction, continue to promote awareness among residents and secondary school students in the four employment impact communities about employment and career opportunities, and also the education and qualifications needed to access these opportunities;
4. Work with school organizations, elementary and secondary schools, and students within the four key communities in the environmental assessment area to promote employment and career opportunities associated with the project, while emphasizing the need to complete high school to qualify for these and other post-secondary learning and career opportunities;
5. Work with training institutions, school organizations and government agencies to share industry-specific needs to allow them to develop appropriate *curricula*, if required;
6. Continue annual Summer Camp for students to the Kimberlite Career and Technical Centre in Yellowknife to get exposure to trades and technology options;
7. Provide youth within the four key communities in the environmental assessment area with exposure to the mining industry through periodic classroom visits by mine personnel as well as providing summer employment and job shadowing for students;
8. Waive formal educational requirements, where appropriate, to reduce barriers for potential Inuit employees;
9. Support some trades training on-site where appropriate with the short life of mine;
10. Continue to provide scholarships in each of the key communities to encourage further education;
11. Ensure on-the-job training manuals take into account cultural differences and language skills, perhaps through a greater use of pictures and diagrams to encourage Inuit workers into the mine; and
12. Work with KIA, Department of Education (who are piloting the Nunavut Community Skills Database), hamlets and training institutions to develop skills assessment and community databases of potential mine site trainees and workers, taking into consideration privacy and other applicable legislation.

### Business Opportunities

1. Provide an annual business opportunities forecast to local businesses to identify foreseeable procurement requirements;
2. Where possible, provide lead time, and identify project components of the construction and operations phases for the four key communities and other northern businesses to help them develop the ability to qualify and effectively compete for contracted work;

3. Endeavour to pre-qualify the four key communities, and offer feedback and assistance in understanding how to fill gaps in their qualifications;
4. Provide information on bidding procedures, subcontracting and joint venture opportunities, to help the four key communities and other northern businesses effectively pursue business opportunities;
5. Facilitate northern sourcing by structuring work packages and sub-packages, where appropriate, to better align with the capacities of qualified northern businesses (*e.g.*, bid packages of varying sizes or broken down sufficiently so as to encourage Inuit participation);
6. Require bidders on major contracts to submit, as part of their bid, a local content plan that specifies how they will optimize the participation of the four key communities and other northern businesses in executing their work;
7. Give particular emphasis to local content plans when evaluating bids, and subsequently awarding work and supply packages for the Project;
8. Ensure that awarded contracts are monitored by the IIBA Implementation Committee and actual contract awards are reviewed to track Inuit content;
9. Monitor implementation of local content plans to ensure that procurement contractor commitments are met, and adhere to terms in the benefits and access agreements;
10. For Inuit owned businesses, waive bonding until a successful contractor is selected;
11. Continue open communications with the four key communities and other northern businesses about Project requirements, including timing, and specification of goods and services required by the Project;
12. Supply information about the four key communities and other northern businesses to potential contractors, in support of local content plans; and
13. Provide feedback to unsuccessful bidders from the four key communities and other northern communities to help them bid more successfully in the future.



**Nunavut Environmental Impact Review Board****Addendum to Condition 1 of the Final Hearing Report  
Doris North Gold Project (March 2006)**

June 22, 2006

For Term and Condition 1<sup>1</sup>, in addition to the commitments listed in Appendix A: List of Commitments from the Final Environmental Impact Statement, the Board requires the following:

**Fish**

1. Implement a No Net Loss Plan that meets the requirements of the DFO to ensure that the alteration or loss of fish habitat due to the Project is fully mitigated and compensated.
2. Implement a follow-up monitoring plan that meets the requirements of the DFO to monitor the effectiveness of the No Net Loss Plan compensation measures and adapt the compensation measures as required to meet the compensation objectives established in the No Net Loss Plan.
3. Conduct the Total Suspended Sediment Monitoring program during the construction of the jetty in Roberts Bay.
4. Where possible, hire Inuit to participate in the monitoring and follow-up programs.

**Water withdrawal in Doris Lake**

5. Design all water intake structures to meet DFO Freshwater Intake End-Of Pipe Fish Screen guidelines to prevent fish entrainment and impingement.

**Watercourse crossings**

6. Install culverts to provide cross drainage along roadways to provide continued flow following the current drainage system as necessary to allow fish passage. Following mine closure, breach the culverts and re-establish natural drainage areas and flow direction.

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<sup>1</sup> Final Hearing Report for the Doris North Gold Project (March 2006), Terms and Conditions, at page 83:

1. The commitments in this Final Hearing Report as Appendix A: MHLB Commitments from the Final Environmental Impact Statement Review, are incorporated herein and must be met.

7. Construct the single span bridge crossing the Doris Outflow at the north end of Doris Lake in the winter when the stream is frozen to the bottom.

#### Blasting

8. Follow the federal blasting guidelines of Wright and Hopky (1998) and the more restrictive guidelines for blasting in the Arctic as required by the DFO.

#### Reduced water quality

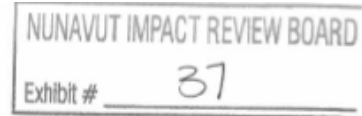
9. Conduct the removal of fish from Tail Lake in accordance with the DFO General Fish-Out Protocol for Lakes to be Lost Due to Mining Developments, and in a manner that accords with the *Inuit Qaujimajatuqangit* key tenet of respect for fish.

#### Tailings pond discharge

10. Water quality in Tail Lake will be monitored prior to release, and the release of decant water into the Doris Outflow will meet the requirements of the federal *Metal Mining Effluent Regulations* (MMER).
11. Water quality will be monitored at the discharge release into the Doris Outflow and downstream of the waterfall, and will meet the requirements of the Canadian Council of Ministers of the Environment (CCME).

#### Fish harvesting activity

12. A no-angling policy will be implemented.

**ADDITIONAL COMMITMENTS****MIRAMAR HOPE BAY LTD.: DORIS NORTH PROJECT****NIRB HEARING, January 30 to February 3, 2006****DFO**

- Miramar will commit to place as much tailings as feasible underground as backfill. To assist in achieving that objective, Miramar will conduct a mine and process engineering study, and from that study will develop protocols for prioritizing the types of materials to be placed underground, and for determining the quantities of the various types of materials that will be placed underground. In determining the feasibility of placing tailings underground, and in prioritizing the types of materials and determining the quantities of materials to be placed underground, Miramar will give considerable weight to the need to minimise the impact of tailings on fish habitat.
- Miramar will monitor stage and discharge in Doris Outflow both upstream and downstream of the decant discharge point to provide information that can be used in assessing the accuracy of the impact predictions relating to fish habitat downstream.
- Miramar commits to re-assessing the length of the jetty, at the regulatory phase and prior to construction, to determine if it can be shortened while reaching sufficient water depths. Miramar will do this re-assessment after conducting more detailed bathymetry as part of the final design.

- To confirm that the ninespine stickleback habitat associated with the wetland along the shoreline where Tail Outflow enters Doris lake is not adversely affected by the project, Miramar will undertake a detailed survey of the willow habitat along this section of shoreline prior to construction. This will provide a basis for comparison with monitoring to be conducted during operation and closure phases of the project. If unforeseen effects on the shoreline habitat of Doris Lake in this area are identified, additional mitigation or compensation measures will be identified and discussed with DFO, prior to implementation.
- Miramar will consider, as part of the No Net Loss Plan, fish passage in the design of the weir proposed in Doris outflow to ensure that fish passage is not impeded.
- Miramar commits to monitor the jetty for a two-year period after lowering to assess the stability, effects of changes in current patterns, and fish use of the area.

**DFO/EC**

- Miramar commits to preparing a single comprehensive summary of the tailings alternatives assessment, in consultation with DFO and EC, to be used in the regulatory phase for scheduling under MMER.

**EC**

- Miramar has committed to monitoring of permafrost in the vicinity of the North and South dams, monitoring thermistors as long as they are operational, and monitoring seepage conditions to ensure design criteria are met. These monitoring measures will be further defined in the regulatory phase.

- Miramar will update the modelling of water quality and water management prior to start-up as further defined in the regulatory phase, and in particular under the Water Licence.
- Miramar commits to consultation with EC about further development of the WMMP for songbirds, shorebirds, sea ducks, and waterfowl, particularly with respect to assessing the validity of the impact predictions in the FEIS, and to take into account, in consultation with EC, the recommendations contained in the Environment Canada written submission of January 18, 2006.
- Miramar commits to collecting further baseline data on the sea ducks that occur in Roberts Bay area, and on waterfowl, in consultation with EC.
- Miramar commits to the collection of further baseline data on migratory birds (sea ducks, shorebirds, waterfowl and other water birds) in Roberts Bay, including the location of spring staging areas (June) and moulting areas (August). MHL has committed to collecting these data in 2006.
- EC recommends that for point to point flying a minimum elevation of 610 m be used when flying over areas with a high likelihood of concentrations of migratory birds or species at risk, and 1,000 m vertical and 1.5 km horizontal distance from any observed concentrations of migratory birds or species at risk. Miramar is willing to document (outline on a map and post in camp) known concentration areas of migratory birds or species at risk during each year of monitoring and follow these guidelines, when logistically and practically reasonable.

- Miramar will provide a tool or table that shows the correlation between the land classification cover types in the Local Study Area and the land cover types in the Regional Study Area.
- Miramar will include protection and mitigation measures for sea birds in the spill contingency response plan.
- Miramar will include monitoring and mitigation measures specific for short-eared owls (a species of special concern).
- Miramar will address the potential issue of nest predators (e.g., foxes) using mine infrastructure as potential den sites, in the WMMP, and propose mitigation to limit predators from using mine infrastructure as den locations.
- Miramar will acknowledge the biodiversity potential of the Hope Bay Belt in the WMMP.
- Miramar will contribute information regarding project-related effects obtained from the WMMP to the appropriate regional authorities so that the information can be added to the knowledge base regarding mine-related effects and can be used in regional land-use planning (related to INAC comments, and annual submission recommendations from GN, DOE, and EC).
- Miramar will gather assistance from community elders to determine appropriate locations of caribou crossings along the proposed roads (incorporate IQ).

**EC / INAC**

- Miramar will commit to review internal aspects of the water quality model relating to source release rates prior to the regulatory phase, to verify predictions and correct as necessary.

**GN**

- Miramar will update the Hazardous Materials Management Plan as part of its water license application to further clarify issues, such as design and operation of the landfarm to remediate any hydrocarbon contaminated soils, the treatment of collected snowmelt and precipitation runoff collected within the diesel fuel tank farm containment berm to remove any oil prior to release.
- GN DOE made 10 recommendations regarding the methods and design of different components in the WMMP. MHL will consult with the GN DOE, as well as EC, in determining the most appropriate methods and measured variables for monitoring during construction, operation and closure prior to final submission of the WMMP.
- Miramar will monitor re-vegetation success post-closure. Miramar will develop a monitoring method that is linked to other post-closure monitoring.
- Miramar has committed to collecting caribou calf:cow ratio information during both aerial surveys and ground-based surveys.
- Miramar will work with the GN DOE, as well as EC, on further consideration of the timing and frequency of the caribou aerial surveys in the WMMP.
- Miramar will discuss further with the GN DOE the merits of conducting an initial population estimate for wolverine using hair-snagging techniques and DNA analysis.

**Health Canada**

- Miramar commits to the collection and analyses of fish tissue samples for precautionary testing to confirm that the fish are edible by humans, immediately prior to and during the fish out of Tail Lake

**INAC**

- Miramar commits to do all necessary site studies, thermal modelling and sensitivity analyses to ensure dam safety and stability, during the regulatory phase and prior to construction.
- Miramar commits to developing a detailed Water Quality Data Analysis and Management Plan to include procedures for: initial start-up and ongoing calibration of analytical equipment; collection, preservation, storage and handling of samples; analytical procedures (e.g., standard methods); checking for outliers; internal reporting and accountability for analytical data and follow-up actions.
- Miramar commits to continue collecting baseline water quality data and considering the additional data in confirmation of the proposed water management strategy as part of the regulatory phase (in particular, the Water Licence application).
- Miramar commits to continue to develop the adaptive management plan to prevent and mitigate shoreline erosion as part of the regulatory (water licence) process.
- Once the Doris North Mine is in operation Miramar will initiate additional kinetic and static test work to further characterize the acid generating – metal leaching potential



of mine rock and tailings with the objective of providing additional data for adaptive management should conditions change or the mine life be extended.

**INAC / Hatch Acres**

- Miramar will carry out additional work prior to the start of construction to verify that the quarried rock to be used for construction will be non-acid generating. QA/QC procedures will be in place during construction to verify that the rock used is geochemically stable.

**KIA**

- Miramar will commit to revisit the TSS calculations and reassess as necessary.

**NRCan**

- Miramar will commit that spill containment measures will be put in place to prevent ammonium nitrate spilled during handling from being lost to groundwater or surface water runoff.
- Miramar will consider doing additional shoreline characterization of shoreline materials around Tail Lake, including possibly drilling, test pitting, observations or geophysical testing as determined necessary to complete the final detailed designs.
- Miramar is committed to do all necessary and reasonable monitoring after closure to ensure compliance to regulatory permits

- Miramar will consider doing additional dam foundation characterization including possibly drilling, test pitting, observations or geophysical testing as determined necessary to complete the final detailed designs.

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent Socio-Economic Commitments		
Requesting Agency	Commitment Requested	Miramar Response
Nunavut Impact Review Board (NIRB)	Request that the Human Resource Plan be finalized.	Commit to have a further developed plan in place prior to construction including an issues resolution process for employees.
NIRB	Request that the Occupational Health and Safety Plan be finalized.	This plan is already well advanced as guided by the WCB. Will make further improvements to specific procedures related to the work site prior to commencement of operations.
NIRB	Request that the Inuit Employment Plan be finalized.	Inuit Employment Plan is in a draft form; more work will evolve with the KIA through and during operations.
NIRB	Request that the Community Relations Plan be finalized.	CRP is a draft. We commit to further develop the plan in consultation with communities. MHLB will include a community issues resolution procedure by the end of 2006.
NIRB	Request that the Employee and Family Assistance Program be finalized.	EFAP will be tendered and contracted prior to the start of construction.
NIRB	Request that the Education and Orientation Plan be finalized.	This plan focuses on preparing potential employees and their families for employment at DN. This will be further developed and in place for major recruitment prior to construction. Workshops will be designed and delivered in the communities.

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent			
Socio-Economic Commitments			
Requesting Agency	Commitment Requested	Miramar Response	
NIRB	Request that the Drug and Alcohol Policy be finalized.	Drug and Alcohol Policy is currently being implemented at Windy Lake Exploration Camp and Vancouver corporate office. It will be implemented for the Doris North project as the first employee/contractor is hired.	
NIRB	Request that the Wellness Strategy be finalized.	Wellness Strategy is in draft form. It has been vetted through impacted communities that possess a Community Wellness Coordinator. It will continue to be developed with community service providers prior to construction and through the life of the mine.	
Health Canada (HC)	Would prefer to see more S/E VECs.	The 2 S/E VECs are adequate as sub categories within the VECs have also been established.	
Indian and Northern Affairs Canada (INAC)	Start compiling targeted collection of specific baseline data.	Function of Socio-Economic Monitoring Committee agreed to on public record and in FEIS.	
INAC	SEMC will identify and track key indicators, address the lack of baseline data, allow for the analysis of trends and input this into the adaptive management process, and be used as a template for consistent future environmental assessment.	Point 1 - SEMC will track key indicators. Point 2, SEMC may not be able to address the lack of baseline data, this is conditional on other agencies. Point 3&4 given and agreed.	

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent		
Socio-Economic Commitments		
Requesting Agency	Commitment Requested	Miramar Response
INAC	Develop a local business incentive policy and communicate it prior to construction.	The IIBA contains provisions related to contracting preference. These preferences include some consideration for businesses within the impacted communities that are not specifically Inuit owned. MHLB essentially has a local BIP in place. Bidding procedures will be communicated to businesses prior to the commencement of operations per existing commitments within the FEIS.

NIRB, Doris North Final Hearing, List of Commitments as Undertook by Proponent			
Socio-Economic Commitments			
Requesting Agency	Commitment Requested	Miramar Response	
Kitikmeot Inuit Association (KIA)	The development of an Integrated Employment and Training Strategy be attached as a condition of a project certificate.	<p>An integrated Employment and Training Plan, to be effective, would require the approval and support of a number of agencies probably including but not limited to: Department of Education, Kitikmeot Economic Development Commission, IIBA Implementation Committee, and possibly a number of program deliverers including Nunavut Arctic College. To make such approval and agreement as a condition of a project certificate would in effect, give any of these agencies a veto on the development of the Doris North Project, which is not acceptable. Moreover, a Nunavut Mine Training Initiative and the creation of a Kitikmeot Mine Training Center, both of which MIBL is involved. The initiation of either of these would have a dramatic impact on the delivery of mine related training within the impacted communities. If an Integrated Employment and Training plan were to be required, in effect, we will be required to double plan. We would rather commit to providing reasonable and appropriate support to both a comprehensive Nunavut Mine Training Initiative and a potential Kitikmeot Mine Training School up to and including the use of Boston Camp as a work practicum area.</p>	

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent			
Socio-Economic Commitments			
Requesting Agency	Commitment Requested	Miramar Response	
Government of Nunavut (GN)	Proponent along with the KIA, affected communities and the GN develop a Terms of Reference for SEMC.	This will be a job for the committee once formed.	
GN	Terms of Reference include the structure of the committee and its membership	As above.	
GN	Terms of Reference include the key indicators to be monitored by the committee.	As above.	
GN	Terms of Reference include the reporting requirements of the committee on an annual basis.	As above.	
GN	Terms of Reference include the methodology of collecting the data.	This will be a job for the committee once formed.	
GN	Further Development of the Community Relations Plan before construction is required to ensure clarity and confidence in issue resolution. Approval of the plan should be sought from the affected communities prior to construction.	Agreed	
GN	A clear, measurable Community Investment Plan be developed, against which the Proponent's success can be measured.	Not applicable as the Plan is the company's choice to allocate donations. These are voluntary charitable donations and should not be regulated.	

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent			
Socio-Economic Commitments			
Requesting Agency	Commitment Requested	Miramar Response	
GN	Contracting workshops be coordinated with local Chambers of Commerce and Community Economic Development Agencies on the identification of opportunities and the development of the capacity to properly take advantage of these opportunities.	Miramar has committed to do deliver workshops within the FEIS. It is believed that Chamber of Commerce is not active in this region; will work with Economic Development agencies as available.	
GN	Develop a policy on how local businesses will be considered in the bid process. The policy must be clearly communicated to the communities prior to construction. The Proponent as part of this policy should be required to provide feedback to unsuccessful local bidders to indicate where they were unsuccessful to allow them to learn and adjust future bidding.	Miramar has committed to do this. We have internal experts in procurement and bid preparation. Details of the preferential treatment of regional and Inuit business etc. are already in place through the IIBA.	
GN	The Proponent will develop an Employment and Training Plan in consultation with the Government of Nunavut. This consultation will ensure that the trades training is linked to Nunavut and national standards and that other projects may benefit from new program initiatives.	MHBL is in consultation with the Government of Nunavut on employment and training matters. Specifically, the development of a comprehensive Nunavut Mine Training initiative. MHBL is committed to work within this initiative and provide reasonable and appropriate support up to and including the provision of the Boston Camp as a work practicum area for potential mine trainees.	



<b>NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent</b>			
<b>Socio-Economic Commitments</b>			
<b>Requesting Agency</b>	<b>Commitment Requested</b>	<b>Miramar Response</b>	
GN	The Employment and Training Plan shall include how the proponent will comply with the relevant legislation such as Apprenticeship, Trades and Occupations Certification Act.	Miramar does and will continue comply with all relevant legislation on all properties.	
GN	The Employment and Training Plan shall include clear and measureable targets for regional employment.	Miramar will focus on the agreed affected communities. Miramar does not believe that the development of employment targets is a productive means for promoting local employment in this project. Recent experience with other developers near the impacted region demonstrates that employment targets tend to promote the advancement of local hires without due consideration for their training in skills. Miramar instead is committed to hiring as many qualified persons as possible from impacted communities.	
GN	The Employment and Training Plan shall include a method of accurate monitoring and reporting on employment at the project during the various stages.	Employment and Training data are offered by Miramar to be included as a regular component of the Socio-Economic Monitoring Committee dataset. It is not necessary to outline this information in a separate suggested plan.	
GN	It is recommended that the Proponent prepare the Wellness Strategy in greater detail prior to construction.	Agreed it will be on-going document up to and including the operations.	

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent		
Socio-Economic Commitments		
Requesting Agency	Commitment Requested	Miramar Response
GN	The Wellness Strategy should include the specific action to be taken, including how specific programs under the Strategy will be communicated to and made available to employees and their family members.	This will be part of the further development as the Project nears construction.
GN	The Wellness Strategy should include what indicators will be used to measure the impact of the Strategy including defining the actual measurements.	Indicators have already been suggested; measurements will be provided as data are gathered.
GN	The Wellness Strategy should include how the data will be collected and applied to the evaluation of the Strategy.	Data will be collected through internal measures and employee feedback.
GN	The Wellness Strategy should include linkages between the Wellness Strategy and other initiatives such as socio-economic monitoring.	Some data collected from the Wellness Strategy will feed into the socio-economic monitoring measurements.
GN	How the proponent will work with Kitikmeot business in the area of capacity building should be linked to the Community Investment Policy.	These are not linked as the Community Investment Policy is Miramar's donation policy.
GN	Appendix A - Concerns and SEIA Addendum Response Matrix should be cross referenced to mitigation measures proposed in the FEIS, and also linked to the Socio-Economic Monitoring Plan.	This has been done internally and can be documented. Where applicable it will be related to VECs in the Socio-Economic Monitoring Plan

NIRB, Doris North Final Hearing, List of Commitments as Understood by Proponent		
Socio-Economic Commitments		
Requesting Agency	Commitment Requested	Miramar Response
GN	As part of the Socio-Economic Monitoring component, the Proponent should develop an up to date database of information. Territorial Government Agencies will assist as required.	Miramar has agreed to further develop the baseline and will welcome the assistance of the GN.
Hamlet of Cambridge Bay	Formation of a Socio-Economic Monitoring and Mitigation Committee for all projects in the region.	Miramar does not have control over this initiative.
Hamlet of Cambridge Bay	Consistent data collection and analysis to allow for proper monitoring and mitigation of issues	Agreed.
Hamlet of Cambridge Bay	MOU be signed between the Socio-Economic Monitoring Committee and other stakeholders not members of the communities.	The Socio Economic monitoring Committee does not have the authority to enter into an agreement with other stakeholders as we understand the request.
Hamlet of Cambridge Bay	That MHL package all Socio-Economic mitigation plans except the Inuit Employment Plan in a document that would constitute a Socio-Economic Agreement between the Hamlet of Cambridge Bay and MHL, and that this be made a condition attached to a project certificate.	This is not an appropriate condition of approval. Further, it is not necessary, given the commitments of Miramar, and the proposed Socio-Economic Monitoring Committee.

## APPENDIX B

### TABLE OF APPLICABLE LEGISLATION AND AUTHORIZATIONS

### List of applicable Legislation and Authorizations required for the Doris North 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	Enforced by Transport Canada	Arctic Waters Pollution Prevention Act Regulations	N/A	Transport Canada	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		Canadian Aviation Regulations			
Canadian Environmental Protection Act, 1999 (CEPA)	Environment Canada	<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> <b>- Environmental Emergencies Regulations</b>	<b>Fuel Storage - INAC Land Lease</b> <b>Other regulations</b> – no permit/authorization	<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	<b>Fuel Storage - Registration of fuel storage tanks</b> <b>Fuels –</b> The Fuel Regulations only apply fuel if 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

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
					meet the reporting thresholds, the annual reporting of releases or transfers. <b>Environmental Emergencies</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.
Explosives Act	Natural Resources Canada	Explosives Regulations	Explosives Factory License	Explosives Regulatory Division	Manufacture and (possibly) storage of explosives
Fisheries Act	Fisheries and Oceans Canada	Metal Mining Effluent Regulations	N/A	Environment Canada	Discharges from TIA must comply with discharge criteria in MMER
Fisheries Act	DFO	Metal Mine Effluent Regulations	Amendment to Schedule II of the Regulation to add Tail Lake as a tailings impoundment area	EC	Deposit of Deleterious Substances into Tail Lake and destruction of fish habitat in Tail Lake
Fisheries Act	DFO	(s. 32)	Destruction of Fish by Means other than fishing	DFO	Blasting & destruction of residual fish in Tail Lake following the fish out program
Fisheries Act	DFO	(s. 30)	N/A – guidelines to be used	DFO	Ensuring screens on water intakes to prevent impingement or entrainment of fish
Fisheries Act	DFO	(s. 35)	Authorizations for the harmful alteration, disruption or destruction of fish habitat	DFO	Destruction of habitat associated with the construction of the jetty, north tailings dam, float plane and boat dock, and bridge over Doris Creek
Fisheries Act	N/A	Fishery (General) Regulations	N/A – “No fishing” policy to be implemented by Company	N/A	The general fishing regulations will not be applicable since the company is implementing a more restrictive “no fishing” policy.
Industry Canada		Industry Canada			

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
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 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		Navigable Waters Protection Program			
Nunavut Act	Culture, Language, Elders & Youth	Nunavut Archeological and Palaeontological Sites Regulations	Permit	Culture, Language, Elders & Youth	- Protection of sites and artifacts
Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSRTA)	INAC	NWT Water Regulation	Nunavut Water Board Water License	INAC	Terms and Conditions of the Water License
Transportation of Dangerous Goods Act		Transportation of Dangerous Goods Regulations			
Species at Risk Act	Environment Canada	N/A	N/A	- Migratory birds: Environment Canada - Fish and marine mammals: DFO - Species within National Parks: Parks	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 wild has been recommended, and -The destruction of critical habitat of an extirpated, threatened or endangered species,

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/Approval)	Responsible Enforcement Agency	Activity being Enforced
				Canada	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		Canadian Ammonium Nitrate Storage Facility Regulations,			
Canadian Transportation Act		Flammable Liquids Bulk Storage Regulations			
Territorial Lands Act					
Territorial Lands Act		Territorial Land Regulations	Land Lease (for jetty)	INAC	Terms and Conditions of Lease
<b>Territorial (Nunavut)</b>					
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 3) Communicable Disease Regulations 4) Eating or Drinking Places Regulations	Inspection  (Employers with >50 employees must provide physician service on contract)		1) Appropriate health services available on site 2) Minimizing risk to human health 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 & Family	H&SS		Inspection and/or	Director of	Child welfare



Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
Services Act			investigation	Children & Family Services	
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 Services	Gas Protection Regulations	If Propane is on site. Installation must be approved by Protection Services	Community & Government Services	- Safety precaution
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
Transportation of Dangerous Goods Act	Economic Development &	Transportation of Dangerous Goods Regulations	Permit where applicable	Economic Development &	-Transportation of dangerous goods on a highway

Statute	Responsible Agency for Statute	Regulation	Authorization Instrument (Permit/License/ Approval)	Responsible Enforcement Agency	Activity being Enforced
	Transportation			Transportation	
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.

## APPENDIX C

### TABLE OF COMMITMENTS AND REGULATORY ROLES

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
	Final Hearing Report Appendix A Commitments				
	Air Quality				
1	Use of an aggressive fuel conservation effort		(GN) Yes, upcoming Climate Change Plan this year from the Federal Government will have an effect on Nunavut legislations in regard to green house emissions and energy efficiency issues.	(GN) Yes, in the near future	(GN) Yes, in the near future
				(EC) advisory (review of air quality mointoring results)	
2	Use of a brine solution for dust suppression in the underground mine		(GN) Yes. EPA (Environmental Protection Act)	(GN) Yes	(GN) Yes
			(EC) [Canadian Evironmental Protection Act (1999) lists CaCl as a toxic substance]	(EC) advisory (pollution prevention)	
			(INAC) if part of water license	(INAC) advisory (water quality)	
3	Use of coarse rock in roads, airstrip, building pads and laydown areas to minimize dust during construction		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results)	
4	Driving at designated speeds on site roads		(GN) Yes. EPA	(GN) Yes	(GN) Yes
5	Application of water to roadways to reduce dust from ore and waste rock haulage and grading to a minimum		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results air quality)	
				(INAC) advisory (water usage)	
6	Installation of dust covers, sonic sprays, etc. to suppress dust generation from equipment in the crushing facility		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality monitoring results)	
7	Installation of a dust scrubber on the smelting off-gas stream		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results air quality)	
8	Submerged release of tailings deposition to avoid tailings dust emissions		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (air quality)	
				(INAC) advisory (water usage)	

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
9	Installation of a waste oil burner unit equipped with a settling tank and filter system for particulate removal from the waste oil		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results air quality)	
10	Regular servicing of all mobile and stationary engines to maintain efficiency				
11	Proper equipment maintenance				
12	Adherence to all permits, authorizations and approvals		(GN) Approvals	(GN) Yes	(GN) Yes
			(EC) Canada-wide standards for dioxins and furans and Canada-wide standard for mercury		
			(DFO) DFO will be responsible for enforcing DFO Authorizations		
Noise					
1	Buildings, structures and material stockpiles will act as physical barriers to noise		(GN) Yes. EPA	(GN) Yes	(GN) Yes
2	Most powered equipment will be enclosed in insulated buildings		(GN) Yes. EPA	(GN) Yes	(GN) Yes
3	Proper equipment maintenance				
4	There will be noise monitoring in the mill for occupational health and safety		(GN) Yes. EPA	(GN) Yes	(GN) Yes
5	The on-site Environmental Manager will also conduct routine inspections of the Project operations and look for possible mitigation opportunities		(GN) Yes. EPA	(GN) Yes	(GN) Yes
6	Adherence to all permits, authorizations and approvals		(GN) Approvals	(GN) Yes	(GN) Yes
Water Quality - TSS					
1	Installing silt curtains in localized areas of permafrost degradation		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	
			(DFO) Suggest that discharge limit be set at 10ppm such that they meet TSS requirements at end of pipe	(INAC) advisory	
			(INAC) if part of water license		
2	Applying geo-textile materials or rip rap to areas where slumping is observed to stabilize the shoreline		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(NRCan) Yes	
			(INAC) if part of water license	(EC) advisory (review of water quality monitoring results)	
				(INAC) advisory	
Water Quality - Runoff					
3	Identifying and using quarry rock that has a low acid generation and metal leaching potential		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (review of water quality monitoring results)	
			(INAC) if part of water license	(INAC) advisory	
4	Implementing industry best practice methods for explosives use, which will limit residual nitrite and nitrate present in quarried and waste rock		(GN) Yes. EPA	(GN) Yes	(GN) Yes

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
			(EC) Fisheries Act, S.36(3)	(EC) advisory (review of water quality monitoring results)	
			(INAC) if part of water license	(INAC) advisory	
5	Completing winter construction of the roads and building pads, which will mitigate the risk of sediment release during constructor		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (review of water quality monitoring resutls)	
				(INAC) advisory	
6	Implementing industry best practices for sediment control and storm water management during and after construction to collect surface runoff, and discharging runoff to the tailings containment area, where the sediments would have the opportunity to settle out		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	
			(INAC) if part of water license	(INAC) advisory	
Permafrost					
1	Additional thermistors will be installed during construction		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(INAC) advisory	
2	Reading of these thermistors will be included in routine site monitoring programs to ensure that the condition of the permafrost in close proximity to the key mine activity centres is being monitored to ensure that the permafrost integrity is being maintained through the planned design and mitigation strategies		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(NRCan) Yes	
				(INAC) advisory	
Vegetation					
1	Avoiding, or reducing, impacts to vegetation units during project planning by re-using previously disturbed areas, where possible		(GN) Yes. EPA	(GN) Yes	(GN) Yes
2	Avoiding, or reducing, impacts to rare species		(GN) Yes. EPA	(GN) Yes	(GN) Yes
3	Implement dust suppression methods (i.e., spraying with water) on the airstrip and roads during the snow/ice free perioic		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results)	
				(INAC) advisory (water usage)	
4	Apply water to roadways to reduce dust from ore and waste rock haulage and minimizing grading		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (air quality)	
				(INAC) advisory (water usage)	

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
5	Install dust covers and sonic sprays to suppress dust generation from equipment in the crushing facility		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results)	
				(INAC) advisory (water quality)	
6	Install a dust scrubber on the smelting off-gas stream		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results)	
7	Re-contouring closure landforms and placing materials to ensure that the final topography and site conditions are similar to other vegetation units of the same type in the region		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(INAC) advisory (through water license A&R plan)	
8	Allow areas to revegetate during operations (e.g., progressive) and promoting natural vegetation regeneration throughout the mine life		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(INAC) advisory (through water license A&R plan)	
9	Using adaptive management approaches to ensure that advances in revegetation research are included in final closure planning efforts		(GN) Yes. EPA	(GN) Yes	(GN) Yes
				(INAC) advisory (through water license A&R plan)	
Jetty					
1	Constructing the jetty of clean, crushed rock that has been certified as having low acid generation potential and low metal leaching potential		DFO can require that material used for jetty construction is clean and free of particulate matter.	(GN) Yes	(GN) Yes
			(GN) Yes. EPA	(DFO) Yes	
			(EC) Fisheries Act, S.36(3)	(EC) advisory (review of water quality monitoring results)	
			(INAC) Territorial Land Regulations - Land Lease	(INAC) advisory	
2	Use of silt curtains, as required to reduce suspended sediment to a level to meet the federal CCME (1999) water quality guidelines		DFO can require the use of silt curtains	(GN) Yes	(GN) Yes
				(INAC) advisory	
			(GN) Yes. EPA	(DFO) Yes	
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
3	The construction will be timed (i.e., early July) to avoid the spawning migrations of capelin during the end of July (Supporting Document F4)		DFO can impose construction timing windows to protect local fish populations during sensitive time-periods	(DFO) Yes	
4	Monitoring measures are outlined in Chapter 6 of the Technical Report. Construction activities will be monitored on terms and conditions of permits and approvals		DFO can include monitoring requirements related to physical impacts to fish and fish habitat in our Authorizations and monitoring of fish habiat compensation effectiveness	(GN) Yes	(GN) Yes
			(GN) Yes. EPA	(DFO) Yes	
				NRCan for monitoring aspects relevant to permafrost and physical marine and coastal processes	
Caribou					
1	Integration of Inuit Qauajimajatuqangit into monitoring programs		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
2	Restricting the mine surface footprint to a small and confined area of 53 ha		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
3	Minimizing the amount of clearing		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
4	Reduce noise by use of muffled exhaust systems		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
5	All diesel powered equipment will meet emission guidelines		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
6	Minimum flying altitude of 300 m above ground level for cargo and passenger aircraft outside of the Project area		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
7	Vehicles restricted to designated roads and prepared work areas (i.e., recreational use of off-road vehicles is prohibited)		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
8	Implement dust suppression methods (i.e., spraying with water) on the airstrip and roads during the snow/ice free period (chemical dust suppressants will not be used)		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
				(INAC) advisory (water usage)	
9	Install dust covers and sonic sprays to suppress dust generation from equipment in the crushing facility		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
				(INAC) advisory (water quality)	
10	Install a dust scrubber on the smelting off-gas stream		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
11	Conducting pre-project surveys to identify wildlife sensitive locations and protected areas for avoidance		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
12	Reclaiming areas during operations (e.g., progressive) and promoting natural vegetation regeneration throughout the mine life		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
13	Wildlife awareness and sensitivity training for on-site personnel		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
14	Participation in the Bathurst Caribou Management Committee		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
15	Implement caribou crossing locations along the road based on local information from the Hunters and Trappers Associations and KIA, among others		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
16	Give caribou the right-of-way (i.e., all vehicles must stop when wildlife are on the road or approaching)		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes



No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
17	Allowing natural encroachment of vegetation on and near roads, airstrip and the active mine site		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
18	Use of Inukshuks or other initiatives determined through consultation with Elders to deter Caribou from site		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
19	Establishing and enforcing speed limits		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
20	Implementing procedures for the safe removal of caribou from hazardous areas (e.g., roads and airstrip)		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
21	Warning drivers when caribou are moving through the area		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
	<b>Grizzly Bear</b>				
1	Integrate Inuit Qaujimajatuqangit into education, monitoring and response programs		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
2	Education and reinforcement of proper waste management practices to all workers and visitors to the site		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
3	Implement appropriate waste management protocols, including burning all food wastes in an oilfired incinerator		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
				(EC) advisory (air quality)	(GN) Yes
4	Eliminate attractants (e.g. food waste, oil products) at the landfill site		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
5	Separation of food waste and non-food waste at source		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
6	Appropriate fencing around the landfill area		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
7	Burn waste oil in waste-oil furnaces or taken off-site for recycling		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
				(EC) advisory (review of air quality mointoring results)	
8	Designate contained areas for worker lunch and coffee breaks		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
9	Educate people on the risk associated with feeding wildlife and careless disposal of food garbage		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
10	Ongoing review of the efficacy of the waste management program and adaptive improvement		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
	<b>Breeding Birds and Waterfowl</b>				
1	Conduct land clearing for site infrastructure (e.g., building pad construction and roads) outside of the breeding season		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations	(EC) primary advisor (migratory birds)	
2	Prevent nesting on mine infrastructure and man-made structures		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations	(EC) primary advisor (migratory birds)	
3	If a nest site is established and eggs are present, avoid the nest as much as possible and monitor for nest success	[Note from EC: according to Section 6(a) of the Migratory Birds Regulations, it is prohibited to disturb or destroy the nests or eggs of migratory birds]	(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations	(EC) primary advisor (migratory birds)	
	<b>Raptors</b>				
1	Incorporate Inuit Qaujimajatuqangit into operations and monitoring programs		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
2	Prevent raptors from nesting on mine infrastructure		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes

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3	If a nest is established within the mine footprint and eggs are present, avoid the nest as much as possible and monitor for nest success		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
4	Establishing and enforcing speed limits		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
5	Reporting all accidental deaths or injury to raptors as a result of vehicle or aircraft collisions, so that mitigation can be adaptively managed		(GN) Yes. Wildlife Act (WA)	(GN) Yes	(GN) Yes
	<b>Archaeology</b>				
1	All construction activity in the vicinity of the remains will cease immediately		(GN) Yes (NAPSR)	(GN) Yes	(GN) Yes
			(INAC) Territorial Land Regulations - Land Lease (specific to land below high water mark at jetty site)	(INAC) advisory	
2	The project archaeologist and Territorial Archaeologist will be contacted. Then the potential significance of the remains will be assessed; and mitigative options will be identified		(GN) Yes (NAPSR)	(GN) Yes	(GN) Yes
3	If the significance of the remains is judged to be sufficient to warrant further action and they cannot be avoided, the project archaeologist in consultation with the Territorial Archaeologist, will determine the appropriate course of action		(GN) Yes (NAPSR)	(GN) Yes	(GN) Yes
4	In the case of human remains, the RCMP will be contacted. In addition, a Coroner and/or physical anthropologist may be involved, if necessary. If the remains are determined to be archaeological, representative of local communities as well as the Inuit Heritage Trust will be consulted to determine how to handle the remains		(GN) Yes (NAPSR)	(GN) Yes	(GN) Yes
5	An education program will ensure that all personnel involved in exploration and development activities are aware that heritage resources are protected by law and that if any archaeological, historic or human remains are uncovered during any such activities, these remains must be reported and disturbance must cease until the remains are dealt with appropriately. The Territorial Archaeologist of the Government of Nunavut will be notified and a qualified archaeologist will assess the incident.			(GN) Yes	(GN) Yes
	<b>Health Services</b>				
1	All employees will undergo a pre-employment medical. This will ensure that the site medical staff are able to provide the best care and treatment to employees as the site is remote from full medical services		(GN) Yes	HC	
				(GN) Yes	
2	Qualified medical personnel will be available at site twenty-four hours a day and seven days a week. They will be able to treat minor illnesses. As employees will spend half of their time at site, this should relieve some burden from the local health facilities		(GN) Yes	HC	
				(GN) Yes	
3	Emergency response and contingency plans are in place for medical evacuation if required		(GN) Yes	HC	
				(GN) Yes	
4	Alcohol and drug education will be provided to all employees and the site will continue to be an alcohol and drug free operation			HC	
				(GN) Yes	
5	Miramar will continue to follow health guidelines, procedures and protocols for camp food. Waste handling and storage will meet all appropriate territorial regulations and standards to avoid any health concerns for employees		(GN) Yes	HC	
				(GN) Yes	

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6	Communication and cooperation processes have been put in place with medical personnel in the camps, the Nunavut HSS, the Yellowknife hospital, appropriate monitors and inspectors, and regional health authorities. The new health Centre that opened in Cambridge Bay in 2005 will also provide a higher level of service			HC	
				(GN) Yes	
7	All Project contractors and subcontractors are bound to the guidelines, procedures and protocols developed by Miramar			HC	
8	Miramar will provide government inspected country food periodically at the mine site. During operations the medical staff will be able to provide information on diet and nutrition			HC	
				(GN) Yes	
9	To avoid employee injury, Miramar will ensure that safety is the highest priority for the Project			HC	
				(GN) Yes (also OH&S)	
10	Miramar will ensure transportation equipment is regularly inspected for safety			HC	
11	Miramar will take safety into account when planning contractor delivery schedules			HC	
	<b>Safety and Protection Services</b>				
1	Miramar will liaise with the RCMP and produce regular updates on project activities and plans that could influence RCMP workloads, communications between camp management and RCMP, and efficiency of RCMP response to calls for service from the camps and from project-related community calls			HC	
2	Miramar will conduct criminal record checks prior to hiring employees to screen out those convicted of crimes of violence such as sexual assault			HC	
3	Miramar will provide counseling and life skills training workshops			HC	
				(GN) Yes	
	<b>Social Services</b>				
1	In order to support the emotional health of employees and avoid burden on community facilities, Miramar will make available a number of methods of communications for workers with their families such as telephone and Internet			HC	
2	Miramar plans to keep family groups or community groups of workers together for support while away from home		(GN) Yes	HC	
				(GN) Yes	
3	Miramar will conduct an extensive orientation program to ensure that all workers are given full training, understand Miramar policies and procedures and have support to adjust to camp life; includes full safety training			HC	
4	Miramar will provide a workplace where individuals are treated in a fair, equitable and respectful manner to attract and retain good workers and reduce stress on employees			HC	
5	Miramar will provide an issues resolution process for employees to be able to resolve any grievances and issues to avoid undue stress and pressure			HC	

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6	As much as possible, Miramar will encourage opportunities for Inuit to speak and maintain their own language while at the same time operating in the language of the camp as long as safety of the employee, others or job performance are not compromised			HC	
7	Alcohol and drug education will be provided to all employees and the site will continue to be an alcohol and drug free operation			HC	
				(GN) Yes	
8	Miramar will provide to all employees a free and confidential Employee and Family Assistance Program (EFAP) that will provide emotional, psychological and mental health counseling for employees and their immediate families for work stress, marital and family issues			HC	
				(GN) Yes	
Employment					
1	Provide the support of a Manager, Community Relations to support community liaison and facilitate workers integration into the work force			(GN) Yes	
2	Provide a workplace where individuals are treated in a fair, equitable and respectful manner in order to attract and retain workers			(GN) Yes	
3	Provide free flights to mine employees travelling to and from work between the four key communities and the mine site. The flights will not go through Yellowknife. MHLBL will consider flights to other communities as appropriate to attract and retain Inuit workers				
4	Raise the level of understanding about the type of employment opportunities in the mining industry so that the key communities can make informed choices and about employment and career opportunities			(GN) Yes	
5	Provide hamlets, and education and training institutions within the four key communities with list of potential jobs, education/training requirements and certificates and transferable skills to other jobs for which individuals might be qualified			(GN) Yes	
6	Work with hamlets and training institutions to develop skills assessment and community databases of potential mine site trainees and workers, taking into consideration privacy and other applicable legislation			(GN) Yes	
7	Work with employment personnel in the key communities to develop a strategy that helps each hamlet retain sufficient skilled individuals to effectively manage the Hamlets			(GN) Yes	
8	Miramar will strictly enforce the Harassment Policy that states that harassment of any kind is not tolerated, will be investigated and discipline may include termination			(GN) Yes	
9	Miramar will provide an issues resolution process to ensure the employees grievances and issues are dealt with in a timely and appropriate manner so they do not consider leaving the company			(GN) Yes	
10	Provide ongoing support for employees of the four key communities and other northern hires that recognize cultural differences at the worksite			(GN) Yes	
11	Identify and communicate project employment opportunities early in project development			(GN) Yes	

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12	Raise the level of understanding about the type of employment opportunities in the mining industry so that the key communities can make informed choices and about employment and career opportunities			(GN) Yes	
13	Communicate employment opportunities and skill requirements to interested organizations, government agencies and communities, in an open, transparent and timely fashion in cooperation with each hamlet, the KIA, and the appropriate government departments and agencies by postings in public places, on the Internet, and in local and government agencies and departments			(GN) Yes	
14	With KIA collaboration, design and implement an Inuit recruitment strategy to ensure that every effort is being made to recruit employees from Nunavut and particularly the four key communities			(GN) Yes	
15	Require contractors and subcontractors to structure Inuit and northern employment policies and plans, complete with reporting and monitoring systems, to comply with the Miramar's benefits plans and agreements, and their commitments to employ workers from the four key communities and other northern communities			(GN) Yes	
16	Establish on-the-job support systems and resources to help develop worksite and life skills			(GN) Yes	
17	Require employees to be age 18 for employment during construction and operations (except specific student programs). This is governed by Miramar employment policies and the Mines Act with regard to underground mining. This will deter youth from leaving school to work on the Project			(GN) Yes	
18	Work proactively with contractors, unions, communities, educational institutions and government agencies to develop and recruit qualified workers			(GN) Yes	
Economy					
1	A commitment has been made to facilitate workshops for workers and their families regarding money management, budgeting and retirement planning so that workers can make informed choices about how they spend their money			HC	
				(GN) Yes	
Education and Training					
1	Work with employment personnel in the four key Hamlets to develop a strategy that helps each Hamlet retain sufficient skilled individuals to manage the Hamlet effectively			(GN) Yes	
2	Establish on-the-job support systems and resources to help develop worksite and life skills			(GN) Yes	
3	Before construction, continue to promote awareness among residents and secondary school students in the four employment impact communities about employment and career opportunities, and also the education and qualifications needed to access these opportunities			(GN) Yes	
4	ork with school organizations, elementary and secondary schools, and students within the four key communities in the environmental assessment area to promote employment and career opportunities associated with the project, while emphasizing the need to complete high school to qualify for these and other post-secondary learning and career opportunities			(GN) Yes	
5	Work with training institutions, school organizations and government agencies to share industry-specific needs to allow them to develop appropriate curricula, if required			(GN) Yes	
6	Continue annual Summer Camp for students to the Kimberlite Career and Technical Centre in Yellowknife to get exposure to trades and technology options			(GN) Yes	

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7	Provide youth within the four key communities in the environmental assessment area with exposure to the mining industry through periodic classroom visits by mine personnel as well as providing summer employment and job shadowing for students			(GN) Yes	
8	Waive formal educational requirements, where appropriate, to reduce barriers for potential Inuit employees			(GN) Yes	
9	Support some trades training on-site where appropriate with the short life of mine			(GN) Yes	
10	Continue to provide scholarships in each of the key communities to encourage further education			(GN) Yes	
11	Ensure on-the-job training manuals take into account cultural differences and language skills, perhaps through a greater use of pictures and diagrams to encourage Inuit workers into the mine			(GN) Yes	
12	Work with KIA, Department of Education (who are piloting the Nunavut Community Skills Database), hamlets and training institutions to develop skills assessment and community databases of potential mine site trainees and workers, taking into consideration privacy and other applicable legislation			(GN) Yes	
Business Opportunities					
1	Provide an annual business opportunities forecast to local businesses to identify foreseeable procurement requirements			(GN) Yes	
2	Where possible, provide lead time, and identify project components of the construction and operations phases for the four key communities and other northern businesses to help them develop the ability to qualify and effectively compete for contracted work			(GN) Yes	
3	Endeavour to pre-qualify the four key communities, and offer feedback and assistance in understanding how to fill gaps in their qualifications			(GN) Yes	
4	Provide information on bidding procedures, subcontracting and joint venture opportunities, to help the four key communities and other northern businesses effectively pursue business opportunities			(GN) Yes	
5	Facilitate northern sourcing by structuring work packages and sub-packages, where appropriate, to better align with the capacities of qualified northern businesses (e.g., bid packages of varying sizes or broken down sufficiently so as to encourage Inuit participation)			(GN) Yes	
6	Require bidders on major contracts to submit, as part of their bid, a local content plan that specifies how they will optimize the participation of the four key communities and other northern businesses in executing their work			(GN) Yes	
7	Give particular emphasis to local content plans when evaluating bids, and subsequently awarding work and supply packages for the Project			(GN) Yes	
8	Ensure that awarded contracts are monitored by the IIBA Implementation Committee and actual contract awards are reviewed to track Inuit content			(GN) Yes	
9	Monitor implementation of local content plans to ensure that procurement contractor commitments are met, and adhere to terms in the benefits and access agreements			(GN) Yes	
10	For Inuit owned businesses, waive bonding until a successful contractor is selected			(GN) Yes	
11	Continue open communications with the four key communities and other northern businesses about Project requirements, including timing, and specification of goods and services required by the Project			(GN) Yes	
12	Supply information about the four key communities and other northern businesses to potential contractors, in support of local content plans			(GN) Yes	

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13	Provide feedback to unsuccessful bidders from the four key communities and other northern communities to help them bid more successfully in the future			(GN) Yes	
	<b>Final Hearing Report Appendix A Addendum</b>				
	<b>Fish</b>				
1	Implement a No Net Loss Plan that meets the requirements of the DFO to ensure that the alteration or loss of fish habitat due to the Project is fully mitigated and compensated		DFO has regulatory authority for this commitment	(DFO) Yes	
2	Implement a follow-up monitoring plan that meets the requirements of the DFO to monitor the effectiveness of the No Net Loss Plan compensation measures and adapt the compensation measures as required to meet the compensation objectives established in the No Net Loss Plan		(DFO) Yes	(DFO) Yes	
3	Conduct the Total Suspended Sediment Monitoring program during the construction of the jetty in Roberts Bay		(DFO) Yes	(DFO) Yes	
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	
4	Where possible, hire Inuit to participate in the monitoring and follow-up programs		(DFO) No		
	<b>Water withdrawal in Doris Lake</b>				
5	Design all water intake structures to meet DFO Freshwater Intake End-Of Pipe Fish Screen guidelines to prevent fish entrainment and impingement		(DFO) We have regulatory authority but proponent will follow guidelines instead of needing an authorization	(DFO) Yes	
			(INAC) if part of water license	(INAC) advisory (water quality)	
	<b>Watercourse crossings</b>				
6	Install culverts to provide cross drainage along roadways to provide continued flow following the current drainage system as necessary to allow fish passage. Following mine closure, breach the culverts and re-establish natural drainage areas and flow direction.		(DFO) Yes	(DFO) Yes	
7	Construct the single span bridge crossing the Doris Outflow at the north end of Doris Lake in the winter when the stream is frozen to the bottom		(DFO) Yes	(DFO) Yes	
	<b>Blasting</b>				
8	Follow the federal blasting guidelines of Wright and Hopky (1998) and the more restrictive guidelines for blasting in the Arctic as required by the DFC		(DFO) Yes	(DFO) Yes	
	<b>Reduced water quality</b>				
9	Conduct the removal of fish from Tail Lake in accordance with the DFO General Fish-Out Protocol for Lakes to be Lost Due to Mining Developments, and in a manner that accords with the Inuit Qaujimajatuqangit key tenet of respect for fish.		(DFO) Yes - in so far as conducting the removal of fish from Tail Lake as per our fish out protocol. Note: Approval from the NWMB will also be required for the harvest of the fish.	(DFO) Yes	
	<b>Tailings pond discharge</b>				
10	Water quality in Tail Lake will be monitored prior to release, and the release of decant water into the Doris Outflow will meet the requirements of the federal Metal Mining Effluent Regulations (MMER)		(DFO) No	(GN) Yes	(GN) Yes
			(GN) Yes. EPS	(EC) advisory (water quality)	
			(EC) Metal Mining Effluent Regulations	(INAC) advisory (water quality)	
			(INAC) if part of water license		

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11	Water quality will be monitored at the discharge release into the Doris Outflow and downstream of the waterfall, and will meet the requirements of the Canadian Council of Ministers of the Environment (CCME)		(DFO) No	(GN) Yes	(GN) Yes
			(GN) Yes. EPS	(EC) advisory (water quality)	
			(EC) Fisheries Act, S.36(3)	(INAC) advisory (water quality)	
			(INAC) if part of water license		
	<b>Fish harvesting activity</b>				
12	A no-angling policy will be implemented		(DFO) No	(DFO) Yes	
	<b>Final Hearing Report Appendix B</b>				
	<b>Additional Commitments</b>				
	<b>DFO</b>				
1	Miramar will commit to place as much tailings as reasonable underground as backfill. To assist in achieving that objective, Miramar will conduct a mine and process engineering study, and from that study will develop protocols for prioritizing the types of materials to be placed underground, and for determining the quantities of the various types of materials that will be placed underground. In determining the feasibility of placing tailings underground, and in prioritizing the types of materials and determining the quantities of materials to be placed underground, Miramar will give considerable weight to the need to minimize the impact of tailings on fish habitat.		(GN) Yes, EPS	(GN) Yes	(GN) Yes
2	Miramar will monitor stage and discharge in Doris Outflow both upstream and downstream of the decant discharge point to provide information that can be used in assessing the accuracy of the impact predictions relating to fish habitat downstream		(INAC) if part of water license	(GN) Yes	(GN) Yes
			(DFO) Yes	(DFO) Yes	
			(GN) Yes, EPS	(EC) advisory (water quality) [depending on nature of monitoring program]	
			(EC) Fisheries Act, S.36(3)	(INAC) advisory (water quality)	
3	Miramar commits to reassessing the length of the Jetty at the regulatory phase and prior to construction to determine if it can be shortened while reaching sufficient water depths. Miramar will do this re-assessment after conducting more detailed bathymetry as part of the final design.	Note from INAC: This commitment will be incorporated into INAC's Land Lease	(INAC) Territorial Land Regulations - Land Lease	(DFO) Yes	
			(DFO) Yes	(INAC) advisory	
4	To confirm that the ninespine stickleback habitat associated with the wetland along the shoreline where Tail Outflow enters Doris Lake is not adversely affected by the Project. Miramar will undertake a detailed survey of the willow habitat along this section of shoreline prior to construction. This will provide a basis for comparison with monitoring to be conducted during operation and closure phases of the project. If unforeseen effects on the shoreline habitat of Doris Lake in this area are identified, additional mitigation or compensation measures will be identified and discussed with DFO, prior to implementation.		(DFO) Yes	(DFO) Yes	
5	Miramar will consider as part of the No Net Loss Plan, fish passage in the design of the weir proposed in Doris outflow to ensure that fish passage is not impeded.		(DFO) Yes	(DFO) Yes	



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6	Miramar commits to monitor the jetty for a two-year period after lowering to assess the stability, effects of change in current patterns and fish use of the area.	Note from INAC: This commitment will be incorporated into INAC's land lease, as part of a requirement for an approved Abandonment and Reclamation (A&R) Plan	(INAC) Territorial Land Regulations - Land Lease (A&R Plan for jetty)	(DFO) Yes	
			(DFO) Yes	(INAC) advisory	
DFO/ Environment Canada					
7	Miramar commits to preparing a single comprehensive summary of the tailings alternatives assessment, in consultation with DFO and EC, to be used in the regulatory phase for scheduling under MMER		(EC) Metal Mining Effluent Regulations	(DFO) Yes	(EC) TIA will be listed on Schedule 2 of the MMER - no actual permit required
				(EC) advisory (water quality)	
Environment Canada					
8	Miramar has committed to monitoring of permafrost in the vicinity of the North and South dams, monitoring thermistors as long as they are operational and monitoring seepage conditions to ensure design criteria are met. These monitoring measures will be further defined in the regulatory phase.		(GN) Yes, EPS	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(NRCan) Yes	
			(INAC) if part of water license	(EC) advisory (monitoring of water quality results)	
				INAC-advisory (water management)	
9	Miramar will update the modelling of water quality and water management prior to start-up as further defined in the regulatory phase, and in particular under the Water Licence.		(GN) Yes, EPS	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality/hydrology)	
			(INAC) if part of water license	(INAC) advisory (water quality)	
10	Miramar commits to consultation with EC about further development of the WMMP for songbirds, shorebirds, sea ducks and waterfowl, particularly with respect to assessing the validity of the impact predictions in the FEIS, and to take into account in consultation with EC, the recommendations contained in the Environment Canada written submission of January 18, 2006.		(GN) Yes, WA	(EC) advisory (migratory birds)	(GN) Yes
			(EC) Migratory Birds Regulations		
11	Miramar commits to collecting further baseline data on the sea ducks that occur in Robert's Bay area, and on waterfowl in consultation with EC.		(GN) Yes, WA	(EC) primary advisory (migratory birds)	(GN) Yes
			(EC) Migratory Birds Regulations		
12	Miramar commits to the collection of further baseline data on migratory birds (sea ducks, shorebirds, waterfowl and other water birds) in Robert's Bay including the location of spring staging areas (June) and moulting areas (August). MHLB has committed to collecting these data in 2006.		(GN) Yes, WA	(EC) primary advisory (migratory birds)	(GN) Yes
			(EC) Migratory Birds Regulations		

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13	EC recommends that for point to point flying a minimum elevation of 610m be used when flying over areas with a high likelihood of concentrations of migratory birds or species at risk, and 1000m vertical and 1.5 km horizontal distnace from any observed concentrations of migratory birds or species at risk. Miramar is willing to document (outline on a map and post in camp) known concentration areas of migratory birds or species at risk during each year of monitoring and follow these guidelines when logistically and practically reasonable.		(GN) Yes, WA	(EC) primary advisory (migratory birds)	(GN) Yes
			(EC) Migratory Birds Regulations		
14	Miramar will provide a tool or table that shows the correlation between the land classification cover types in the Local Study Area and the land cover types in the Regional Study Area		(GN) Yes, WA	(EC) primary advisory (migratory birds and species at risk)	(GN) Yes
			(EC) Migratory Birds Regulations and Species at Risk Act		
15	Miramar will include protection and mitigation measures for sea birds in the spill contingency response plan		(GN) Yes, WA	(EC) primary advisory (migratory birds)	(GN) Yes
			(EC) Migratory Birds Regulations		
16	Miramar will include monitoring and mitigation measures specific for short eared owls ( a species of special concern)	Note from EC: GN-DOE has the primary responsibility for owls	(GN) Yes, WA		(GN) Yes
			(EC) Species at Risk Act		
17	Miramar will address the potential issue of nest predators (eg, foxes) using mine infrastructure as potential den sites, in the WMMP, and propose mitigation to limit predators from using mine infrastructure as den locations.		(GN) Yes, WA	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations	(EC) primary advisory (migratory birds)	
18	Miramar will acknowledge the biodiversity potential of the Hope Bay Belt in the WMMP		(GN) Yes, WA	(GN) Yes	(GN) Yes
			(EC) Canadian Biodiveristy Strategy	(EC) advisory	
19	Miramar will contribute information regarding project related effects obtained from the WMMP to the appropriate regional authorities so that the information can be added to the knowledge base regarding mine related effects and can be used in regional land use planning (related to INAC comments and annual submission recommendations from GN, DOE and EC)		(GN) Yes, WA	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations and Species at Risk Act	(EC) advisory (migratory birds and species at risk)	
				(INAC) advisory	
20	Miramar will gather assistance from community elders to determine appropriate locations of caribou crossings along the proposed roads (incorporate IQ)	Note from EC: EC does not have expertise in caribou. GN DoE has the primary management responsibility for caribou	(GN) Yes, WA	(GN) Yes	(GN) Yes
	Environment Canada/ INAC				
21	Miramar will commit to review internal aspects of the water quality model relating to source release rates prior to the regulatory phase, to verify predictions and correct as necessary.		(GN) Yes, EPA	(GN) Yes	(GN) Yes

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			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	
				(INAC) advisory (water quality)	
	<b>Government of Nunavut</b>				
22	Miramar will update the Hazardous Materials Management Plan as part of its waste licence application to further clarify issues such as design and operation of the landfarm to remediate any hydrocarbon contaminated soils, the treatment of collected snowmelt and precipitation runoff collected within the diesel fuel tank farm containment berm to remove any oil prior to release.		(GN) Yes, EPA	(GN) Yes	(GN) Yes
			(EC) Canadian Environmental Protection Act (1999)	(EC) advisory (pollution prevention)	
				(INAC) advisory	
23	GNDOE made 10 recommendations regarding the methods and design of different components in the WMMP. MHL will consult with the GN DOE as well as EC in determining the most appropriate methods and measured variables for monitoring during construction, operation and closure prior to final submission of the WMMP		(GN) Yes, WA	(GN) Yes	(GN) Yes
			(EC) Migratory Birds Regulations and Species at Risk Act	(EC) advisory (migratory birds and species at risk)	
24	Miramar will monitor re-vegetation success post closure. Miramar will develop a monitoring method that is linked to other post closure monitoring	Note from INAC: This commitment will be incorporated into INAC's land lease, as part of a requirement for an approved Abandonment and Reclamation (A&R) Plan, with respect to the jetty	(GN) Yes, WA	(GN) Yes	(GN) Yes
			(INAC) Territorial Land Regulations - Land Lease (A&R Plan for jetty)	(INAC) advisory	
25	Miramar has committed to collecting caribou calf:cow ratio information during both aerial surveys and ground based surveys		(GN) Yes, WA	(GN) Yes	(GN) Yes
26	Miramar will work with the GN DOE as well as EC on further consideration of the timing and frequency of the caribou aerial survey in the WMMP		(GN) Yes, WA	(GN) Yes	(GN) Yes
				EC does not have expertise in caribou. GN-DoE has the primary management responsibility for caribou	
27	Miramar will discuss further with the GN DOE the merits of conducting an initial population estimate for wolverine using hair snagging techniques and DNA analysis.		(GN) Yes, WA	(GN) Yes	(GN) Yes
	<b>Health Canada</b>				
28	Miramar commits to the collection and analyses of fish tissue samples for precautionary testing to confirm that the fish are edible by humans, immediately prior to and during the fish out of Tail Lake			HC	
	<b>INAC</b>				

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
29	Miramar commits to do all necessary site studies, thermal modelling and sensitivity analyses to ensure dam safety and stability, during the regulatory phase and prior to construction.		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(INAC) advisory	
30	Miramar commits to developing a detailed Water Quality Data Analysis and Management Plan to include procedures for: Initial start up and ongoing calibration of analytical equipment; collection, preservation, storage and handling of samples; analytical procedures (eg standard methods); checking for outliers; internal reporting and accountability for analytical data and follow up actions.		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(EC) Fisheries Act, S.36(3)	(EC) advisory (water quality)	
			(INAC) if part of water license	(INAC) advisory (water quality)	
31	Miramar commits to continue to develop the adaptive management plan to prevent and mitigate shoreline erosion as part of the regulatory (water licence) process.		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(INAC) advisory (water quality)	
32	Once the Doris North Mine is in operation Miramar will initiate additional kinetic and static test work to further characterize the acid generating - metal leaching potential of mine rock and tailings with the objective of providing additional data for adaptive management should conditions change or the mine life be extended.		(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(INAC) advisory (water quality)	
Hatch Acres					
33	Miramar will carry out additional work prior to the start of construction to verify that the quarried rock to be used for construction will be non-acid generating. QA/QC procedures will be in place during construction to verify that the rock used is geochemically stable.	Note from INAC: As a result of the inclusion of Final Hearing Report, Appendix A, Jetty Condition #1 into INAC's Land Lease; this commitment will be covered indirectly by INAC's land lease	(GN) Yes. EPA	(GN) Yes	(GN) Yes
			(INAC) Territorial Land Regulations - Land Lease	(INAC) advisory	
KIA					
34	Miramar will commit to revisit the TSS calculations and reassess as necessary		(GN) Yes, EPA	(GN) Yes	(GN) Yes
			(INAC) if part of water license	(EC) advisory (water quality)	
			(EC) Fisheries Act, S.36(3)	(INAC) advisory (water quality)	
NRCan					
35	Miramar will commit that spill containment measures will be put in place to prevent ammonium nitrate spilled during handling from being lost to groundwater or surface water runoff.		(GN) Yes, EPA	(GN) Yes	(GN) Yes
			(NRCan) Yes. Where defined in the terms and conditions of a Explosive Factory License. NRCan has no authority where AN is stored or handled in a facility not subject to the license or during transportation.	(NRCan) Yes	

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
			(INAC) if part of water license	(EC) advisory (water quality/pollution prevention)	
			(EC) Fisheries Act, S.36(3), Canadian Environmental Protection Act (1999)	(INAC) advisory (through water license final design plan)	
36	Miramar will consider doing additional shoreline characterization of shoreline materials around Tail Lake, including possibly drilling, test pitting, observations or geophysical testing as determined necessary to complete the final detailed designs.		(GN) Yes, EPA	(GN) Yes	(GN) Yes
				(NRCan) Yes	
				(INAC) advisory	
37	Miramar is committed to do all necessary and reasonable monitoring after closure to ensure compliance to regulatory permits	Note from INAC: This commitment will be incorporated into INAC's land lease, as part of a requirement for an approval Abandonment and Reclamation (A&R) Plan, with respect to the Jetty	(GN) Yes, EPA	(GN) Yes	(GN) Yes
			(INAC) Territorial Land Regulations - Land Lease (A&R Plan for jetty)	(INAC) advisory	
38	Miramar will consider doing additional dam foundation characterization including possibly drilling, test pitting, observations or geophysical testing as determined necessary to complete the final detailed designs.		(GN) Yes, EPA	(GN) Yes	(GN) Yes
				(NRCan) Yes	
				(INAC) advisory (through water license final design plan)	
List of Commitments as understood by Proponent					
NIRB					
39	Commit to have a further developed (Human Resources Plan) plan in place prior to construction including an issues resolution process for employees				
40	The Occupational Health and Safety Plan is already well advanced as guided by the WCB. Will make further improvements to specific procedures related to the work site prior to commencement of operations				
41	Inuit Employment Plan is in draft form; more work will evolve with the KIA through and during operations				
42	Community Relations Plan is a draft. We commit to further develop the plan in consultation with communities. MHL will include a community issues resolution procedure by the end of 2006				
43	Employee and Family Assistance Program will be tendered and contracted prior to the start of construction				
44	The Education and Orientation plan focusses on preparing potential employees and their families for employment at Doris North. This will be further developed and in place for major recruitment prior to construction. Workshops will be designed and delivered in the communities				
45	Drug and Alcohol Policy is currently being implemented at Windy Lake Exploration Camp and Vancouver corporate office. It will be implemented for the Doris North Project as the first employee/contact is hired.				

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
46	Wellness strategy is in draft form. It has been vetted through impacted communities that possess a Community Wellness Coordinator. It will continue to be developed with community service providers prior to construction and through the life of the mine.			HC(if desired by NIRB and GN)	
	Health Canada				
47	The 2 S/E VECs are adequate as subcategories within the VECs have also been established				
	INAC				
48	Function of SocioEconomic Monitoring Committee agreed to on Public Record and in FEIS			(INAC) advisory	
49	SEMC will track key indicators. SEMC may not be able to address the lack of baseline data, this is conditional on other agencies. SEMC will allow for the analysis of trends and input this into the adaptive management process, and be used as a template for consistent future environmental assessment			(INAC) advisory	
50	The IIBA contains provisions related to contracting preferenc. These preferences include some consideration for business within the impacted communities that are not specifically Inuit owned. MHLB essentially has a local Business Incentive Policy (BIP) in place. Bidding procedures will be communicated to businesses prior to the commencement of operations per existing commitments within the FEIS				
	KIA				
51	We would commit to providing reasonable and appropriate support to both a comprehensive Nunavut Mine Training Initiative and a potential Kitikmeot Mine Training School up to and including the use of Boston Camp as a work practicum area				
	Government of Nunavut				
52	The committee once formed will develop Terms of Reference for the SEMC			(GN) Yes	
				(INAC) advisory	
53	Terms of Reference include structure of committee and membership			(GN) Yes	
				(INAC) advisory	
54	Terms of Reference include the key indicators to be monitored by the committee			(GN) Yes	
				(INAC) advisory	
55	Terms of reference include the reporting requirements of the committee on an annual basis			(GN) Yes	
				(INAC) advisory	
56	Terms of reference include the methodology of collecting the data			(GN) Yes	
				(INAC) advisory	
57	Further development of the Community Relations Plan before construction is required to ensure clarity and confidence in issue resolution. Approval of the plan should be sought from the affected communities prior to construction.			(GN) Yes	
58	A clear, measureable Community Investment Plan against which the Proponent's success can be measured is not applicable as the Plan is the company's choice to allocate donations. These are voluntary charitable donations and should not be regulated.				
59	Miramar has committed to deliver workshops within the FEIS. It is believed that Chamber of Commerce is not active in this region; will work with Economic Development agencies as available.			(GN) Yes	

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
60	Miramar has committed to develop a policy on how local businesses will be considered in the bid process. The policy must be clearly communicated to the communities prior to construction. The Proponent as part of this policy should be required to provide feedback to unsuccessful local bidders to indicate where they were unsuccessful to allow them to learn and adjust future bidding. Miramar has internal experts in procurement and bid preparation. Details of the preferential treatment of regional and Inuit business etc are already in place through the IIBA.			(GN) Yes	
61	MHBL is in consultation with the Government of Nunavut on employment and training matters. Specifically the development of a comprehensive Nunavut Mine Training Initiative. MHBL is committed to work within this initiative and provide reasonable and appropriate support up to and including the provisions of the Boston Camp as a work practicum area for potential mine trainees.			(GN) Yes	
62	Miramar does and will continue to comply with all relevant legislation on all properties (Apprenticeship, Trades and Occupations Certification Act)		(GN) Yes	(GN) Yes	
63	Miramar will focus on the agreed affected communities. Miramar does not believe that the development of employment targets is a productive means for promoting local employment in this project. Recent experience with other developers near the impacted region demonstrates that employment targets tend to promote the advancement of local hires without due consideration for their training in skills. Miramar instead is committed to hiring as many qualified persons as possible from impacted communities.			(GN) Yes	
64	Employment and training data are offered by Miramar to be included as a regular component of the Socio-Economic Monitoring Committee dataset. It is not necessary to outline this information in a separate suggested plan.			(GN) Yes	
65	The Wellness Strategy will be ongoing document up to and including the operations.			(GN) Yes	
66	The Wellness Strategy will include the specific action to be taken including how specific programs under the Strategy will be communicated to and made available to employeesand their family members as part of the further development as the Project nears construction			(GN) Yes	
67	Indicators for the Wellness Strategy have already been suggested; measurements will be provided as data are gathered.			(GN) Yes	
68	Wellness strategy data will be collected through internal measures and employee feedback			(GN) Yes	
69	Some data collected from the Wellness Strategy will feed into the socioeconomic monitoring measurements.			(GN) Yes	
70	How the proponent will work with Kitikmeot business in the area of capacity building and the Community Investment Policy are not linked as the Community Investment Policy is Miramar's donation policy				
71	Appendix A Concerns and SEIA Addendum Response Matrix cross referencing to mitigation measures proposed in the FEIS and linkages to the Socio-Economic Monitoring Plan has been done internally and can be documented. Where applicable it will be related ti the VECs in the Socio-Economic Monitoring Plan			(INAC) advisory	
				(GN) Yes	
72	Miramar has agreed to further develop the baseline information as part of Socio-Economic Monitoring and welcomes assistance of the GN		(GN) Yes	(INAC) advisory	
				(GN) Yes	
	Hamlet of Cambridge Bay				

No	Term and Condition	Comment	Indicate whether your Regulatory Agency has any regulatory authority for the Commitment	Indicate whether your Regulatory Agency can provide any expert advice for the Commitment	Indicate whether your Regulatory Agency can exercise its jurisdiction as a result of NLCA 12.9.7
73	Miramar does not have control over the formation of the socio-economic monitoring and mitigation committee for all projects in the region.			(INAC) advisory	
74	Miramar agrees to consistent data collection and analysis to allow for proper monitoring and mitigation of issues.			(INAC) advisory	
75	The SocioEconomic Committee does not have the authority to enter into an agreement with other stakeholders not members of the communities			(INAC) advisory	
76	It is not an appropriate condition of approval for MHBL to package all SocioEconomic mitigation plans except the Inuit Employment Benefit Plan in a document that would constitute a Socio-Economic Agreement between the Hamlet of Cambridge Bay and MHBL. Further it is not necessary given the commitments of Miramar and the proposed Socio-Economic Monitoring Committee.			(INAC) advisory	



APPENDIX D

MONITORING PROGRAM

**Appendix D****Doris North Gold Mine Project Certificate**

As indicated in Section 4: Project Specific Terms and Conditions, MHBL 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.

## APPENDIX E

### LIST OF GOVERNMENT OF NUNAVUT CONTACTS

**List of Government of Nunavut Contacts**

No	Plan Name	Related GN Department	Responsible Official	Contact Information
1	Wildlife Mitigation and Monitoring Plan	Department of Environment	Mike Atkinson  Mike Settingington	(867)975-7732 matkinson@gov.nu.ca (867)857-2828 <a href="mailto:msettingington@gov.nu.ca">msettingington@gov.nu.ca</a>
2	Environmental Protection Plan	Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
3	Emergency Response and Spill Contingency Plan	Department of Community & Government Services	<i>To be determined</i>	
		Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
4	Occupational Health and Safety Plan	Department of Health and Social Services	Isaac Sobol, Chief Health Medical Officer	(867) 975-5772 <a href="mailto:isobol@gov.nu.ca">isobol@gov.nu.ca</a>
5	Reclamation Plan	Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations – Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
		Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
6	Education and Orientation Plan	Department of Education	Mark MacKay, Director of Policy	(867)975-5606 <a href="mailto:mmackay@gov.nu.ca">mmackay@gov.nu.ca</a>
7	Human Resources Plan	Department of Education	Mark MacKay, Director of Policy	(867)975-5606 <a href="mailto:mmackay@gov.nu.ca">mmackay@gov.nu.ca</a>
		Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f

**List of Government of Nunavut Contacts**

No	Plan Name	Related GN Department	Responsible Official	Contact Information
				<a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
8	Inuit Involvement Plan	Department of Education	Mark MacKay, Director of Policy	(867)975-5606 <a href="mailto:mmackay@gov.nu.ca">mmackay@gov.nu.ca</a>
		Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
9	Community Relations Plan	Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
		Department of Community & Government Services	<i>To be determined</i>	
10	Monitoring and Follow-up Plan	Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
		Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
11	Auditing and Continuous Improvement Plan	Department of Executive & Intergovernmental Affairs	Rachel Mark, Director of Policy	(867)975-6029 <a href="mailto:rmark@gov.nu.ca">rmark@gov.nu.ca</a>
12	Community Investment Plan	Department of Community & Government Services	<i>To be determined</i>	
13	Contracting Workshops Plan	Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f

**List of Government of Nunavut Contacts**

No	Plan Name	Related GN Department	Responsible Official	Contact Information
				<a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
14	Local Business Bid Process Plan	Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
15	Employment and Training Plan	Department of Education	Mark MacKay, Director of Policy	(867)975-5606 <a href="mailto:mmackay@gov.nu.ca">mmackay@gov.nu.ca</a>
		Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations - Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
16	Wellness Strategy	Department of Health and Social Services	Isaac Sobol, Chief Health Medical Officer	(867) 975-5772 <a href="mailto:isobol@gov.nu.ca">isobol@gov.nu.ca</a>
17	Socioeconomic Monitoring Program Plan (includes baseline data collection)	Department of Economic Development & Transportation	Beatrice Bernhardt, Director, Community Operations – Kitikmeot	POB 316 KUGLUKTUK NU X0B 0E0 (867) 982- 7459 p (867) 982- 7459 f <a href="mailto:bbernhardt@gov.nu.ca">bbernhardt@gov.nu.ca</a>
18	Hazardous Materials Management Plan	Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
19	Water Quality Data Analysis & Management Plan	Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>
20	Noise Abatement Plan	Department of Environment	Mike Atkinson	(867)975-7732 <a href="mailto:matkinson@gov.nu.ca">matkinson@gov.nu.ca</a>