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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Miramar Hope Bay Ltd. **Licence No: ________________**
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Manager Environmental Permitting & Compliance Monitoring: Terri Maloof
   Tel: 604-985-2572 Fax: 604-980-0731 E-mail: tmaloof@miramarmining.com

2. Exploration Manager: Darren Lindsay Tel: 604-985-2572 Fax: 604-980-0731
   Email: dlindsay@miramarmining.com

3. Does the applicant hold the necessary property rights?
   Yes, surface rights are administered by KIA and mineral rights are administered by INAC. Both IOL Exploration Agreements and Crown mineral lease and are maintained in good standing.

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. **No.**

5. Duration of the Project

   ☐ One year or less Start and completion dates:
   ☒ Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: **March 11, 2007** Completion: **March 10, 2012**

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☐ Temporary
   ☒ Seasonally Occupied: ~ **Approx Feb.15 t o Oct 15.**
   ☒ Permanent
   ☐ Other:________________

7. What is the design, maximum and expected average population of the camp?

Windy Camp accommodates a maximum of 90 personnel. Based on operational needs, the average camp population could fluctuate between an estimated 50 to 60 personnel.

8. Provide history of the site if it has been used in the past.

Windy Camp has been operational since 1996 and has served as the main operations base for Miramar Hope Bay Ltd. exploration activities on the Hope Bay Belt. This is a license renewal application.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
Not applicable – Renewal Application. Camp is established and the location remains the same.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.
Not applicable – Renewal application. Camp is established.

11. Is the camp or any aspect of the project located on:

☒ Crown Lands	Permit Number (s)/Expiry Date: **ML-4649 / Oct.12, 2022**
☐ Commissioners Lands	Permit Number (s)/Expiry Date:
☒ Inuit Owned Lands	Permit Number (s)/Expiry Date: **KTL303C056 / Jan.31, 2009**

12. Closest Communities (direction and distance in km):

Umingmaktok – approx. 50km west Cambridge Bay – approx 100km north

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Yes. Community consultation tours were conducted in 2005 and 2006, as well, the NIRB hearings for the Doris North Project in January 2006 with attendance of members from local communities, has included collection and discussion of traditional knowledge, updates on activities and future plans. Communities include: Kugluktuk, Cambridge Bay, Taloyoak and Gjoa Haven, Bathurst Inlet and Umingmaktok. Communities and community groups are also aware of MHBL programs through the review of annual work plans and reports submitted to KIA.

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats? **No.**

PURPOSE OF THE CAMP

15.
- [x] Mining (includes exploration drilling)
- [ ] Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- [ ] Other:

16. Activities (check all applicable)

- [ ] Preliminary site visit
- [x] Prospecting
- [x] Geological mapping
- [x] Geophysical survey
- [x] Diamond drilling
- [x] Reverse Circulation Drilling
- [ ] Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- [ ] Other: _____

17. Type of deposit (exploration focus):

- [ ] Lead Zinc
- [ ] Diamond
- [x] Gold
- [ ] Uranium
- [ ] Other: _____

DRILLING INFORMATION: Note that the following information pertains to drilling terms and conditions as listed in the current license, no drilling occurs in the immediate camp vicinity.

18. Drilling Activities

- [x] Land Based drilling
- [x] Drilling on ice

19. Describe what will be done with drill cuttings? **This is a renewal application, drill cuttings treated as per requirements of the current license.**

20. Describe what will be done with drill water? **This is a renewal application, drill water treated as per requirements of the current license.**

21. List the brand names and constituents of the drill additives to be used. **Includes the MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.**

Calcium chloride in the form of a mixed brine solution will be the only additive used to prevent the drills from freezing withing the permafrost. This is a renewal application, all additives used are in line with the requirements of the current license.

22. Will any core testing be done on site? **No.**

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submittedwith the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002.* Please include for review. **The plan is attached in Appendix A.**

24. How many spill kits will be on site and where will they be located?

Nine (9) spill kits are strategically placed around the Windy Camp area (fuel tanks, airstrip, generator shack, gasoline storage and helicopter pad).

Three (3) at Patch Lake - two (2) at the drill shop and one (1) at the fuel farm.

One (1) spill kit at Roberts Bay and one (1) spill kit available at each drill.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets. **See section 2.2 of the Environmental Protection Plan – Appendix A**
DIESEL-P50: Windy Camp: 1 x 70000L AST tank, 1 x 50000L AST tank; Patch Lake: 5 x 70000L AST tanks, 2 x 75000L AST tanks,
TURBO FUEL (JET B): approximately 1000 - 45 gallon drums on the belt. Storage is split between Windy and Boston camp depending on program requirements,
GASOLINE: Windy Camp: 1 x 1243L tidy tank; Patch Lake: 1 x 1243L tidy tank
MSDS sheets are available on site.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water is pumped from Windy Lake.

27. Estimated water use (in cubic metres/day):

■ Domestic Use: 20 m3 ___	Water Source: Windy Lake
■ Drilling: 30 m3	Water Source: nearest
☐ Other: **N/A**	Water Source:

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline)* Describe:
No changes from the existing license. Water is pumped on demand via the pipeline to Windy Lake. The pump intake is screened to meet DFO requirements.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Water will be sampled and analysed for total and Faecal coliform on a weekly basis. Analysis for Ph, TSS, conductivity and BOD5 will be done on a monthly basis.

30. Will drinking water be treated? How? **No.**

31. Will water be stored on site?

Water is supplied at an on-demand basis and not stored on site. Should this change, an application for amendment will be submitted.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

Camp Sewage (blackwater) **Camp sewage is discharged to an RBC rotodisc treatment plant which was approved by the NWB in 2000. It is then put into drums and taken to Boston camp for disposal.**

Camp Greywater **All greywater reports to the RBC treatment plant mentioned above. Treated greywater is released over the ridge east of Windy Camp via a 300 m insulated and heat trace line.**

Solid Waste Stored onsite and eventually removed from site.

Bulky Items/Scrap Metal **Stored onsite and eventually removed from site.**

Waste Oil/Hazardous Waste **Waste oil will be disposed of in an onsite waste oil burner. Hazardous waste will be packed in drums and removed from site.**

Empty Barrels/Fuel Drums **Removed from site**.

Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated? **Diesel fired incinerator manufactured by Westland is used. All kitchen waste and combustible material is placed in the incinerator and the ashes are packed into drums to be removed from site.**

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted? **Non combustible waste is packed into drums to be removed from site.**

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable). **Not applicable**

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? **Not applicable.**

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place? **All methods have been in place for a number of years and since this is a license renewal there are no problems expected with the existing infrastructure. Contingency plans are included in section 7.0 of the MHBL Environment and Protection plan, included with this application.**

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site. **See the attached Closure and Reclamation plan Appendix B.**

BASELINE DATA

No baseline information has been collected as a direct requirement of this water license, however considerable baseline data has been collected as a component of the Doris North Environmental Impact Statement. Environmental and socio-economic and traditional knowledge studies are ongoing and this data is being used to create a baseline dataset for the Hope Bay Belt.

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

- ☒ Physical Environment (Landscape and Terrain, Air, Water, etc.)
- ☒ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- ☒ Socio-Economic Environment (Archaeology, Land and Resources Use,
- ☐ Demographics, Social and Culture Patterns, etc.)
- ☐ Other: _____

See the Final Environmental Impact Statement, Doris North Project, Nunavut, Canada, submitted by Miramar Hope Bay Ltd. October 2005 to the Nunavut Impact Review Board.

REGULATORY INFORMATION

MHBL has access to all documents listed below.

40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:
ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*

Northwest Territories Waters Regulations, 1993
NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
NWB - Interim Rules of Practice and Procedure for Public Hearings
RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
NWTWB - Guidelines for Contingency Planning
Canadian Environmental Protection Act, 1999 (CEPA)
Fisheries Act, RS 1985 - s.34, 35, 36 and 37
DFO - Freshwater Intake End of Pipe Fish Screen Guideline
NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
I Public Health Act - Camp Sanitation Regulations
I Public Health Act - Water Supply Regulations
I *Territorial Lands Act* and *Territorial Land Use Regulations;* Updated 2000