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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Hornby Bay Exploration Limited

Licence No:

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: David Bent
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2. Project Manager: David Bent Tel: 416 368 0114 Fax: 416 368 0198
E-Email; dbent@hornbybay.com
3. Does the applicant hold the necessary property rights? **Yes**
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? **No**
If so, please provide letter of authorization.
5. Duration of the Project
[] Annual
[X] Multi Year:
If Multi-Year indicate proposed schedule of on site activities
Start: **Normally early July** Completion: **Normally mid- September**
A renewable two year licence is being requested.

CAMP CLASSIFICATION

6. Type of Camp
[] Mobile (self-propelled)
[X] Temporary
[X] Seasonally Occupied: **Possibly May - September**
[] Permanent
[] Other: _____
7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

Personnel will fluctuate between 18 and 33; maximum capacity 35

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

Camp location has indications of temporary occupancy over many years, possibly by mineral exploration teams and seasonal hunters. The modern camp was established in 1996 and has been expanded in recent years to its present capacity. The camp consists of Weatherhaven and Jutland tents on plywood frames.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp is located on Crown Land on the south side of Mouse Lake. The site is approximately 65 kilometers south of Kugluktuk and 550 kilometers north of Yellowknife (Latitude 67° 05.973' N; Longitude 115° 44.198' W). The camp is located on a flat bench of glacial gravel approximately ten meters above the level of the lake.

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.

The site is ideal for a camp due to the elevation above the lake combined with deep water for landing and mooring float planes and obviously has been used in the past. The Inuit hunters from Kugluktuk occasionally use the camp in the winter as a stop off point.

11. Is the camp or any aspect of the project located on:
- | | |
|---|---|
| <input checked="" type="checkbox"/> Crown Lands | Permit Number (s)/Expiry Date: N2004C002/ (21/03/06) |
| <input type="checkbox"/> Commissioners Lands | Permit Number (s)/Expiry Date: _____ |
| <input type="checkbox"/> Inuit Owned Lands | Permit Number (s)/Expiry Date: _____ |

12. Closest Communities (distance in km):

Kugluktuk is located approximately 65 kilometers to the north.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

In addition to the local contacts during the DIAND process for acquiring work permits (Current Work Permit N2004C0002), a meeting was held with the Kugluktuk Town Council on December 21st, 2004 to explain the Company's exploration plan. Several discussions have also been held with leaders of the local office of the Kitikmeot Inuit Association and the Department of the Environment.

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?

The Project will not affect traditional water use, nor will it negatively impact fish and/or wildlife habitat. All crew support will be by helicopter.

PURPOSE OF THE CAMP

15. ☒ Mining
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☐ Other _____ (Omit questions # 16 to 22)
16. ☐ Preliminary site visit
☒ Prospecting
☒ Geological mapping
☒ Geophysical survey
☒ Diamond drilling
☐ Reverse circulation drilling
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
☐ Other: _____
17. Type of deposit:
- ☐ Lead Zinc
☒ Diamond
☐ Gold
☒ Uranium
☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities
- ☒ Land Based drilling
 - ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

All drill cuttings will be retained in a sump located a minimum of 31 meters from the normal high water mark of any water body. The sump will be backfilled upon completion of the hole.

20. Describe what will be done with drill water?

Drill water will be returned to the sump and a series of settling tanks prior to being reused for drilling. There will be minimal water loss except in cases of highly fractured rock beneath the permafrost layer.

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

Poly Drill OBX and Poly Drill 133X/1330

Both additives are liquid polymers. No ingredients are hazardous as per WHIMIS regulations. Poly Drill OBX disperses in water. The solubility of Poly Drill 133X/1330 is limited by solution viscosity.

Both products are biodegradable. The MSDS sheets are appended.

22. Will any core testing be done on site? Describe. **No**
Core will be split on site and sent to Loring Laboratories in Calgary for testing.

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.

See attached Hornby Bay Exploration Limited Spill Contingency Plan (2005)

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

See attached Hornby Bay Exploration Limited Spill Contingency Plan (2005)

Spill kits will be provided for the camp generator, the diamond drill, the main fuel cache at camp and a mobile unit for use at the smaller fuel caches as they are used.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

See attached Hornby Bay Exploration Limited Spill Contingency Plan (2005)

All fuels are stored in 205L steel drums on elevated areas distant from bodies of water. The drill additives are in 22L plastic containers and their storage is supervised by the drill foreman.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water source for the camp will be Mouse Lake. The nearest large lake to the individual drill holes will be used once the targets have been identified by ground geophysical surveys.

27. Estimated demand (in L/day * person):

- | | |
|---|-----------------------------------|
| <input type="radio"/> Domestic Use: <u>100 L/person/day</u> | Water Source: <u>Mouse Lake</u> |
| <input type="radio"/> Drilling Units: <u>15,000 L/ day/hole</u> | Water Source: <u>nearest lake</u> |
| <input type="radio"/> Other: _____ | Water Source: _____ |

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

The water pump intake will be equipped with a screen, with a mesh size sufficiently fine so as to prevent the entrainment of fish. Pumping rates will be sufficiently low so as to prevent the impingement of fish on the pump intake screen.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Drinking water quality will be monitored monthly, for both chemical and microbiological quality, in accordance with the *Camp Sanitation Regulations*.

30. Will drinking water be treated? How?

Should monitoring results indicate the necessity of treatment, water will be treated by batch chlorine addition to maintain a chlorine residual, as required by the *Camp Sanitation Regulations*.

31. Will water be stored on site?

Water will be stored on site in a two 2200L plastic tanks in an enclosed area.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:
- ⊗ Camp Sewage (blackwater)

Sewage will be managed by pit toilets, located and operated in a manner consistent with that of pit toilets at other exploration and tourism camps currently licensed by the Nunavut Water Board (NWB). Pits will be treated with lime and backfilled following use.

⊗ Camp Greywater

Camp greywater will be discharged to a sump located at a site where direct flow into a water body is not possible and no additional impacts are created. This sump will be operated in a manner consistent with that of sumps at other exploration and tourism camps currently licensed by the Nunavut Water Board (NWB). Average daily discharge will be on the order of 2500 liters.

⊗ Solid Waste

Combustible solid waste will be incinerated daily in a modified 45 gallon drum incinerator. Non-combustible waste will be backhauled to an approved Solid Waste Disposal Facility in either Kugluktuk or Yellowknife.

☒ Bulky Items/Scrap Metal

Items will be removed from site for proper disposal.

☒ Waste Oil/Hazardous Waste

Waste oil not used for garbage incineration will be removed from site for proper disposal. All potential hazardous waste such as batteries, aerosol cans, paint cans, etc are routinely collected and shipped to Yellowknife for disposal.

☒ Empty Barrels/Fuel Drums

Empty fuel drums will be returned to Yellowknife for recycling.

☐ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?

Combustible materials such as food, paper and wood will be incinerated in a modified 45 gallon drum. Non-combustible wastes will be backhauled to an approved Solid Waste Disposal Facility.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

Non-combustible waste will be backhauled principally to Yellowknife. Any waste backhauled to Kugluktuk will be properly handled by MULCO.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).

The greywater sump for the camp is located in a depression west of the camp and there is no possibility of seepage into the lake. The greywater disposal sump will be operated in a manner consistent with that of sumps at other exploration and tourism camps currently licensed by the Nunavut Water Board (NWB).

All sumps for drill cuttings will be placed not less than 50 m above the high water mark of the nearest body of water.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

No leachate is anticipated so monitoring is 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?

As stated above, the greywater disposal sump will be operated in a manner consistent with that of sumps at other exploration and tourism camps currently licensed by the Nunavut Water Board (NWB). No significant O & M issues have been reported with this method of greywater management. A Spill Contingency Plan is included with this application.

Similarly, the treatment of drill cuttings by confining them to restrictive sumps is the normal procedure and has been proven satisfactory under arctic conditions.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

See attached Abandonment and Restoration (A&R) Plan for the Mouse Lake project.

Camp – The camp is temporary in nature and can be readily dismantled upon completion of the project. Due to the rapidly changeable climatic conditions, the insulated Weatherhaven and Jutland tents have been mounted on plywood floors.

Drill Sites – All drill sites will be cleaned daily with all wastes removed to camp for disposal. Since the drilling operation will be helicopter supported, any damage to the tundra will be site specific and temporary. Typically, drill sites are impossible to find after several seasons of normal climatic conditions.

Field Personnel – All field personnel are under strict orders to return personal garbage (lunch waste, cigarette packaging, etc) to camp for disposal.

BASELINE DATA

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:

The project is at a very early stage and no specific baseline data has been collected.

Several of the above subjects were covered briefly during the Work Permit application process.

REGULATORY INFORMATION

40. Do you have a copy of
- ☒ Article 13 - Nunavut Land Claims Agreement
 - ☒ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 - ☒ NWB - Interim Rules of Practice and Procedure for Public Hearings
 - ☒ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the

NWT

- ⊗ NWTWB - Guidelines for Contingency Planning
- ⊗ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ⊗ Fisheries Act - s.35
- ⊗ RWED - Environment Protection- Spill Contingency Regulations
- ⊗ Canadian Drinking Water Quality Guidelines
- ⊗ Public Health Act Camp Sanitation Regulations
- ⊗ Public Health Act Water Supply Regulations
- ⊗ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

The Company uses the above documents as a foundation for its operating procedures.