February 5, 2011

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Brett Hamilton **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Brett Hamilton Tel: 403-463-0890 Fax: 403-284-0074 E-mail : brett.hamilton@ucalgary.ca

2. Project Manager: Same as above Tel: _____Fax: _____E-mail: _____

3. Does the applicant hold the necessary property rights?

Applications for permits are have been submitted, but not yet granted.
An INAC Land Use Permit is not required due to the nature of the project.
A Qikiqtani Inuit Association Application for Access to Inuit Owned Land is being completed.

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: June 28 – August 11, 2011
☐ Multi Year:

If Multi-Year indicate proposed schedule of on site activities
Start: _____ Completion:_____

CAMP CLASSIFICATION

6. Type of Camp

☐ Mobile (self-propelled)
☑ Temporary
☑ Seasonally Occupied: Summer, 2011
☐ Permanent
☐ Other:_____

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

Camps will consist of two 8'x9' nylon tents and one 8'x10' canvas kitchen tent with no floor. The kitchen tent will include a 2-burner naphtha-fired stove and a naphtha-fired lantern. A gasoline-powered electrical generator will be used to recharge batteries.

Up to 80 L of gasoline will be stored at the camp in 5 gal/19 L plastic jerrycans to fuel an inflatable Zodiac boat with 10 HP motor and the electrical generator. The gasoline will be stored in a single fuel cache with a spill kit.

There will be two people at the camps.

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

The campsites have not been used in the past.

CAMP LOCATION

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

Tents will be established on bedrock, where possible, or tundra within 100m of a stream or lake. The camp on the shore of Clephane Bay will be at least 50m from the ocean shore. The exact locations will be decided from a helicopter on the day it is setup.

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 camp sites were selected from satellite images and topographic maps. The sites have not been previously used. Assistance from the RIA was not sought. The approximate location of the camps is included on the attached map.

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

☑ Crown Lands Permit Number (s)/Expiry Date: Class B permit not required
☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
☑ Inuit Owned Lands Permit Number (s)/Expiry Date: Pending

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

Pangnirtung is 130 km to the west.
Qikiqtarjuaq is 170 km to the north-northwest.

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

Ron Mongeau and Rick Van Horne, the Senior Administrative Officers for both Pangnirtung and Qikiqtarjuaq, respectively, were notified via email. No concerns have been raised thus far, but I will contact them again.

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?

Due to the small size and short duration of the camps, minimal impacts are anticipated to water bodies and habitats. Camps are not located near waters commonly used by the nearby communities, to the best of my knowledge.

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☑ Other: Geological bedrock mapping research

16. Activities (check all applicable)

- ☐ 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 (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other: There is potential for economic mineral deposits in the research area, but mineral/gem exploration will not be carried out as part of the project.

DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

N/A

20. Describe what will be done with drill water?

N/A

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.

N/A

22. Will any core testing be done on site? Describe.

N/A

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with 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.

See attachment.

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

There will be one spill kit at the campsite and it will be located next to the gasoline cache.

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

Gasoline: Up to 80 L will be stored in 5 gal/19 L plastic jerrycans.
Naphtha: Up to 20 L will be stored in the 4 L metal containers in which it is purchased.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water sources will be unnamed lakes or streams adjacent to the campsites. (See attached map).

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

- ☑ Domestic Use: 0.02 m^3/day___ Water Source: Streams or lakes next to camp
- ☐ Drilling: 0 m^3/day_____ Water Source: _____
- ☐ Other: _____ 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:

Water will be scooped manually from water bodies.

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

Drinking water quality will not be monitored.

30. Will drinking water be treated? How?

Drinking water will not be treated.

31. Will water be stored on site?

About 20L of water will be stored on site in plastic pails.

WASTE TREATMENT AND DISPOSAL

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

- ☑ Camp Sewage (blackwater)

About 0.002 m3/day of human waste will be buried >30m from any water body and downstream from the campsite.

☑ Camp Greywater

About 0.02 m3/day of waste dish water and some soapy water will be buried >30m from any water body.

☑ Solid Waste

Solid waste (household garbage) will be flown to Pangnirtung and disposed in the waste facility.

☐ Bulky Items/Scrap Metal

☐ Waste Oil/Hazardous Waste

☐ Empty Barrels/Fuel Drums

☐ Other:

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

There will not be an incinerator on site.

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

Solid waste will be disposed of in Pangnirtung waste facility. The hamlet has been notified of this request, but I have yet to receive a response.

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

There will be no sumps.

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

Leachate will not be monitored.

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?

The water supply and waste treatment and disposal strategy has been used successfully for the past two summers in the same region. If permafrost is near the surface, shallower and wider disposal holes may be necessary, but due to small volumes of wastewater, this will still be a viable disposal method.

ABANDONMENT AND RESTORATION

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

All waste disposal holes will be filled. When the holes are dug, the uppermost soil and vegetation will be removed as intact as possible so it may be replaced when the hole is filled.

Any rocks that were arranged to secure tents will be scattered.

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: _____

REGULATORY INFORMATION

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
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ *Territorial Lands Act* and *Territorial Land Use Regulations*; Updated 2000