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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Edward Little **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel: _____ Fax: _____ E-mail: _____
2. Project Manager: Dr. Edward Little Tel: 867-979-3539 Fax: 867-979-0708
Email: elittle@NRCan.gc.ca
3. Does the applicant hold the necessary property rights?
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)?
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: July, 2003 Completion: August 2005

CAMP CLASSIFICATION

6. Type of Camp
[] Mobile (self-propelled)
[X] Temporary
[X] Seasonally Occupied: _____
[] 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?

There will be 9 people stationed in the Base camp; visitors may increase total camp population to 11 or 12 personnel.

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

The proposed camp has been previously used by other government field researchers. Garth Jackson (GSC) used this camp for bedrock geologic mapping in the late 1960's – early 1970's.

CAMP LOCATION

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

The proposed camp location is located east of Angajurjualuk Lake, on the north side of the Raven River. It is located southeast of Nuluujaak Mountain and the Mary River Camp. No known archaeological sites are located in close proximity to the proposed camp.

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.

It was selected base on its use by other government researchers.

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

<input checked="" type="checkbox"/> Crown Lands	Permit Number (s)/Expiry Date: <u>application pending</u>
<input type="checkbox"/> Commissioners Lands	Permit Number (s)/Expiry Date: _____
<input checked="" type="checkbox"/> Inuit Owned Lands	Permit Number (s)/Expiry Date: <u>application pending</u>

12. Closest Communities (distance in km):

Pond Inlet: 160 km

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

Letters will be sent to the Mayers and HTAs in the following Communities: Igloodik, Pond Inlet and Clyder River.

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?

Neither traditional water use, nor local fish and wildlife habitats will be affected by this study.

PURPOSE OF THE CAMP

15. Mining

Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)

(Omit questions # 16 to 21)

X Other: Geological (scientific) mapping to stimulate the mineral exploration industry in this region. (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?
20. Describe what will be done with drill water?
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.
22. Will any core testing be done on site? Describe.

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.
- The Permittee shall report all spills immediately with instructions contained in "Spill Report" form NWT 1752 (05/93), the NWT Water Board's "Guidelines for Contingency Planning" (1987) and contact the Twenty-four (24) hour spill report line (867) 920-8130.
24. How many spill kits will be on site and where will they be located?
- Three spill kits will be in camp: Kitchen, Generator station and Helicopter refueling area.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
- Jet B will be stored in standard 205 L sealed fuel drums.
 - Gasoline will be stored in CSA approved 19 L jerry cans.
 - White Gas will be stored in original containers.
 - Propane will be stored in CSA approved 100 lb pressurized cylinders and stored according to MSDS requirements.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water will be obtained from the river adjacent to the camp site.

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

X Domestic Use: 25 L/day per person Water Source: River
Drilling Units: _____ 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? Describe:

Water intake will be accomplished with the use of a water pump. A mesh screened hose will be placed into the water source (river).

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

No.

30. Will drinking water be treated? How?

No.

31. Will water be stored on site?

Yes.

WASTE TREATMENT AND DISPOSAL

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

X Camp Sewage (blackwater)

Buried

X Camp Greywater

Buried

X Solid Waste

If Flammable (organic) it is burned. If not, it is back hauled to municipal landfill.

X Bulky Items/Scrap Metal

Back hauled to municipal landfill.

Waste Oil/Hazardous Waste

None

X Empty Barrels/Fuel Drums

Back hauled to community for reuse.

Other:

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

Flammable waste such as organics (e.g., food scraps) will be incinerated in a used fuel drum.

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 back hauled to municipality landfill. Igloolik.

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

N/a

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

N/a

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?

Simple method of obtaining water has been used by government research in the high arctic. It has proven to work reliably well. Back-up plans include manually hauling water (by foot) using water containers.

ABANDONMENT AND RESTORATION

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

Camp will be left as we find it. All garbage will be picked up and grey-water/sewage pits will be adequately buried.

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.)
 - X Other:
Jackson G.D. 2000: Geology of the Clyde-Cockburn Land Map Area, North-Central Baffin Island, Nunavut. GSC Memoir 440, 303pp.

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.