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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Max Friesen **Licence No: _____**
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager : Max Friesen Tel: 416-978-4505 Fax: 416-978-3217 E-mail: max.friesen@utoronto.ca

2. Project Manager: Max Friesen Tel: 416-978-4505 Fax: 416-978-3217 E-mail: max.friesen@utoronto.ca

3. Does the applicant hold the necessary property rights? not applicable

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

   X One year or less Start and completion dates:

Total duration will be approximately 25 days, from approximately June 28 – July 22, 2010. Please note, at the midpoint of the season we will move camp across the river by helicopter; so each camp will be occupied for roughly 2 weeks.

   ☐ Multi Year:

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

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   X Temporary
   ☐ Seasonally Occupied: _____
   ☐ Permanent
   ☐ Other:_____

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

Camp will consist of approximately 6-7 people, with seven small nylon sleeping tents, and two larger canvas cook tents. For one or two days, 8 Cambridge Bay elders will fly out to the camp for the day to record Traditional Knowledge, but they will not sleep over in the camp.

8. Provide history of the site if it has been used in the past.
We plan to camp at new locations.

CAMP LOCATION

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

Camps will be situated on flat, well-drained land near the banks of the Ekalluk River. The first camp will be situated on the North bank, near Wellington Bay; the second camp will be situated on the south bank, near Ferguson Lake. The two camps will be only about 3 km apart, but on different sides of the river.

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 camps will be selected because they are close to the archaeological sites which we will be investigating. Please see map attached to water licence application.

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

☐	Crown Lands	Permit Number (s)/Expiry Date: _____
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
X	Inuit Owned Lands	Permit Number (s)/Expiry Date: Pending

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

Cambridge Bay is approximately 50 km to the southeast.

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

Yes – this research was planned in cooperation with the Kitikmeot Heritage Society of Cambridge Bay. Max Friesen travelled to Cambridge Bay in December, 2009, to discuss this research with the elders of the Kitikmeot Heritage Society. They were very supportive, and plan to use some of the results of our fieldwork for museum displays in Cambridge Bay.

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 – we anticipate no impacts on water use areas, fish, or wildlife.

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- X Other Archaeological and traditional knowledge 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: mapping of archaeological sites and excavation of some sites (all excavations are backfilled at the end ofexcavation)

17. Type of deposit (exploration focus):

- ☐ 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. 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.

- please see separate attachment-

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

We will have extremely limited fuel on site – namely, several Jerry cans of gasoline for a generator, and several propane cylinders for a cooking stove. We do not have spill kits, but will take extreme care while handling fuel.

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

60 litres of gasoline in Jerry Cans.

4, 20-pound tanks of propane.

2 litres engine oil.

We will use no chemicals on site.

Fuel is stored next to a work tent. Fuel is handled only by the camp manager, Max Friesen.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water will be drawn from the Ekalluk River.

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

X Domestic Use: less than 1 cubic metre/ day Water Source: Ekalluk River
☐ Drilling: _____ 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:

Because very small amounts of water are used, we simply submerge clean plastic water jugs in the river until they are full, and then carry them to the cook tent.

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

We have used River water in previous years and it has always been of excellent quality. We do not plan to monitor its quality.

30. Will drinking water be treated? How?

No.

31. Will water be stored on site?

Yes, in water jugs in the cook tent.

WASTE TREATMENT AND DISPOSAL

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

X Camp Sewage (blackwater)

We will dig an outhouse pit away from the river, which will be backfilled at the end of the summer.

X Camp Greywater

We will dispose of greywater in a pit away from the river, which will be backfilled at the end of the summer.

X Solid Waste

All solid waste will be returned to Cambridge Bay at the end of the field camp, for disposal at the dumpsite.

☐ Bulky Items/Scrap Metal

_____not applicable_____

☐ Waste Oil/Hazardous Waste

_____not applicable_____

☐ Empty Barrels/Fuel Drums

_____empty jerry cans and propane cylinders will be returned to Cambridge Bay__

☐ Other:

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

not applicable

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

We dispose of our waste in Cambridge Bay. Amounts are extremely small (equivalent to 4-6 large garbage bags).

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?

No monitoring will occur.

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?

Yes, I have used similar methods in cold environments in past summers with no problems.

ABANDONMENT AND RESTORATION

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

All materials brought in will be removed to Cambridge Bay. At the end of the camping period, we will scour the camp site to ensure that no garbage or other materials remain.

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.)
- X 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