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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Defence Construction Canada Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Douglas Craig Tel: 613-998-7288 Fax: 613-998-0468 E-mail: Douglas.Craig@dcc-cdc.gc.ca

2. Project Manager: David Eagles Tel: 613-998-9523 Fax: 613-998-0468 E-mail: David.Eagles@dcc-cdc.gc.ca

3. Does the applicant hold the necessary property rights? Yes – a land use permit from Indian and Northern Affairs Canada.

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. – N/A

5. Duration of the Project

   - ü One year or less Start and completion dates: June 15 – September 30, 2007
   - c Multi Year:

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

CAMP CLASSIFICATION

6. Type of Camp

   - c Mobile (self-propelled)
   - c Temporary
   - c Seasonally Occupied: _____
   - ü Permanent
   - c Other:_____

7. What is the design, maximum and expected average population of the camp?
The contractor built a hotel in the Hamlet to accommodate the DEW Line clean up crew. The hotel is able to accommodate up to 55 people, with an average of 40 people on site at a time.

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

The site was a former Distant Early Warning (DEW) Line site, which was used from 1955 to 1993 to provide radar surveillance of the northern approaches to the North American air space. In March 1985, Canada and the United States agreed to moderize the North American Air Defence System by closing the 21 remaining DND DEW Line sites and building the North Warning System (NWS). The DEW Line Clean Up (DLCU) focuses on closing out the former DEW Line sites, including the remediation of chemically contaminated soils, the stabilization of landfill areas and the demolition/disposal of surplus infrastructure and debris. A monitoring program will be carried out after the clean up has been completed.

CAMP LOCATION

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

A description of these features was provided in Section 6 of the Project Description in Appendix I of the original application.

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 hotel and equipment storage areas are located within the Hamlet, in an area approved by the Hamlet administration.

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

ü Crown Lands Permit Number (s)/Expiry Date: N2005X0041/22january2008

c Commissioners Lands Permit Number (s)/Expiry Date: _____
c Inuit Owned Lands Permit Number (s)/Expiry Date: _____

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

The closest community is Hall Beach, located adjacent to the FOX-M site.

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

Community meetings are completed each year by the contractor, prior to the start of the construction season. In addition, meetings were held by Defence Construction Canada in 2003.

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?

A description of the potential impacts was provided in Sections 7 and 8 of the Project Description in Appendix I of the original application.

PURPOSE OF THE CAMP

15.
- c Mining (includes exploration drilling)
- c Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ü Other _Environmental Clean Up_____

16. Activities (check all applicable)

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

N/A

17. Type of deposit (exploration focus):

- c Lead Zinc
- c Diamond
- c Gold
- c Uranium
- c Other: _____

N/A

DRILLING INFORMATION

18. Drilling Activities

- c Land Based drilling
- c Drilling on ice

N/A

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.

A Spill Contingency Plan was included in Appendix VI with the application in 2003.

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

All major pieces of equipment will contain a small spill kit. Larger spill kits will be located at the camp/storage area.

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

The major chemicals stored at the site are diesel fuel and gasoline, which are currently stored Material Safety Data Sheets were previously submitted to the NWB in an Annual Report.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Please see Drawing 101 provided in Appendix III for the location of the existing water supply at FOX-M. Please note: The contractor is obtaining water for the project through the Hamlet.

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

- ü Domestic Use: (340 L/day/person) Water Source: water supply lake/Hamlet
- c Drilling: _____ Water Source: _____
- c 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 is pumped into a truck equipped with a holding tank from the water supply lake and transferred to a tank at the camp area. All water intake hoses will be equipped with screens with a mesh size of 2.5 millimetres or less to prevent the intake of fish.

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

Drinking water is provided by the Hamlet and is monitored for the typical drinking water parameters prescribed by Health Canada.

30. Will drinking water be treated? How?

N/A

31. Will water be stored on site?

Water will be stored at the camp in a mobile holding tank.

WASTE TREATMENT AND DISPOSAL

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

ü Camp Sewage (blackwater):
The sewage is being managed and treated by the Hamlet.

ü Camp Greywater
The sewage is being managed and treated by the Hamlet.

ü Solid Waste
Domestic and other non-hazardous waste will be incinerated and the residue will be buried in the Non-Hazardous Waste Landfill.

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c Bulky Items/Scrap Metal
N/A

ü Waste Oil/Hazardous Waste

It is not anticipated that the clean up activities will generate any hazardous wastes; however, any hazardous wastes encountered at the site will be dealt with according to the Environmental Protection Plan in Appendix II of the Project Description.

ü Empty Barrels/Fuel Drums

Empty barrels and fuel drums will be disposed of according to the DEW Line Clean Up Barrel Protocol, which is in Appendix V of the Project Description.

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c Other:

N/A

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

Domestic, non-hazardous solid wastes are incinerated in an enclosed container (empty 205 litre barrel). The container is located at least 100 metres away from the camp, any site facilities, natural water courses or water bodies. A fire extinguisher has been provided at the incineration site.

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

Non-combustible, non-hazardous solid wastes will be buried on site.

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

N/A

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

Leachate monitoring is conducted as part of the Landfill Monitoring Plan, which is updated upon completion of the overall site clean up and continues for a period of 25 years. The Monitoring Plan for FOX-M was previously submitted to the NWB.

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 treatment systems have been used during the cleanup of 12 DEW Line sites, all of which are completed. No outstanding problems were discovered during the clean up of these sites. Contingency plans for fuel and hazardous material spills, wildlife encounters and discovery of heritage resources are provided in the Environmental Protection Plan in Appendix II and the Contingency Plan in Appendix VI of the Project Description.

ABANDONMENT AND RESTORATION

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

The aim of the DEW Line Clean Up Project is to decommission those facilities used by the former DEW Line which have been declared surplus to the requirements of the new North Warning System and to restore the sites to an environmentally sound condition. Environmental restoration includes the setting of remediation objectives that are designed to preclude the continued migration of contamination (and hence biomagnification) into the Arctic ecosystem/ food chain. To accomplish this, remediation will include:

- The excavation of soils in cases where parameters exceed those that have been set for the project (i.e., believed to cause significant input into the lower levels of the food chain, for example, higher plants and detritus); and,
- The remediation of landfills which may serve as a source of water contamination and may enter the lower levels of the marine food chain (i.e., algae).

Site decommissioning activities, when the clean up is completed, will involve the demobilization of all contractor equipment, camp infrastructure (if used), and materials no longer required at the site. The requirement for the contractor to undertake these decommissioning activities is a contractual obligation written into the project specifications.

BASELINE DATA

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

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

Baseline information was collected as part of this project. Please see Section 12 in the Project Description (Appendix I) for the bibliography. No further baseline information will be collected.

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:

- ü ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
- ü NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
- ü *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