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NUNAVUT WATER BOARD
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EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

ADMINISTRATIVE INFORMATION

1. Associate Project Manager: Phil Warren Tel: 613-998-7288 Fax: 613-998-0468 E-mail: Philip.Warren@dcc-cdc.gc.ca

2. Project Manager: Daniel Paquet Tel: 613-998-9523 Fax: 613-998-1061 E-mail: Daniel.Paquet@dcc-cdc.gc.ca

3. Does the applicant hold the necessary property rights?

Yes, work is to be performed on a Federal Reserve on behalf of the Department of National Defence. A land use permit from Indian and Northern Affairs Canada has been submitted.

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

[✓]Annual
[ ] Multi Year
If Multi-Year indicate proposed schedule of on site activities
Start: May 2006 Completion: September 2006

CAMP CLASSIFICATION

6 Type of Camp

[ ] Mobile (self-propelled)
[✓] Temporary
[ ] Seasonally Occupied:
[ ] Permanent
[ ] Other:_____

What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

The average population of the camp will be approximately 25-30 people, including the site investigation team, equipment operators, wildlife monitors and the camp outfitter staff. The work program will be executed in stages with personnel shift changes upon completion of each stage. The maximum population of the camp is anticipated to be 30 people

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

Until the late 1980's, the site was operated as a Distant Early Warning System site by the Canadian and American governments. The Dewar Lakes site was an intermediate station designated FOX-3. Other development or work at the site includes the use of portions of the site adjacent to the Airstrip for a mining exploration base camp. No other information on the mining camp is known.

CAMP LOCATION

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

The landscape is characterized by a broad gently rolling upland flanked by an extensively eroded terrain that is distinguished by steeply sided valleys and prominent stride ridges (dykes) which form natural drainage sheds with the landscape. Glaciers have scoured the region.

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 and/or associated storage areas are to be located in areas of previous disturbance to minimize damage to previously undisturbed areas. The exact location of the camp will not be available until the contract has been awarded and the contractor mobilizes to the site.

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

[✓] Crown Lands Permit Number (s)/Expiry Date: INAC Land use permit application submitted.

[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____

[ ] Inuit Owned Lands Permit Number (s)/Expiry Date: _____

A land use permit from Indian and Northern Affairs Canada has been applied for, but has not yet been received.

12. Closest Communities (distance in km):

The closest communities are Clyde River and Qiqiktarjuaq, located approximately 180 km north and 220 km west of the FOX-3 site, respectively.

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

Typically, community consultations are held after the site investigation in preparation for the clean up.

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 unmitigated, negative impacts on traditional water use areas and wildlife habitats are anticipated as a result of the site investigation activities

PURPOSE OF THE CAMP

15. . Mining
□ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
✓ Other - Environmental Cleanup (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: _____

N/A

17. Type of deposit:
    . Lead Zinc
    . Diamond
    . Gold
    . Uranium
    . Other: _____

N/A

DRILLING INFORMATION

18. Drilling Activities
    . Land Based drilling
    . 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. Does the proponent have a spill contingency plan in place? Please include for review.

Diesel and gasoline will be used during the site investigation of FOX-3. As fuels are usually stored and transferred in barrels of 205 litres or smaller capacity, any spill quantity would likely be small. In the event of a spill, protection of human health and safety is paramount. Contamination of personnel involved in clean is a real possibility as is contamination of the surrounding workplace and environment. The individual discovering a spill shall:

- Ensure personnel are appropriately trained.
- Provide materials and equipment necessary for adequate response to fuel spills, such as mini-excavators for creating earthen dykes and hydrocarbon absorbent booms.
- Warn people in the immediate vicinity and evacuate the area if necessary
- Wear protective clothing as required for handling spills.
- Isolate and eliminate all ignition sources.
- Identify the spilled material if possible, and take all safety precautions before approaching it
- Attempt to immediately stop the leakage and contain the spill, if safe to do so.
- Make every effort to contain the spill by dyking with earth or other barriers on land and containment booms on water.

- Report to the field team leader the spill location, type of material, volume and extent, status of spill (direction of movement), and prevailing meteorological conditions.
- Follow all applicable federal/territorial regulations and guidelines for the disposal of spill materials.
- Document all events and actions taken. Include information required by applicable regulations and guidelines.
- Notify appropriate government agencies using the contact list. Report spills immediately on the 24 Hour Spill Report Line (867) 920-8130.

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

A spill kit will be located at each fuel storage/handling area operated by the camp and will consist, at minimum, of the following:

- Oil absorbent materials
- Salvage/storage drum
- 2 shovels
- rubber lined gloves
- 1 wheelbarrow or trailer for removal of impacted soils

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

It is estimated that the camp operation will require a combined total of approximately 3500 litres of gasoline and diesel fuel. Fuel is stored in 205 litre barrels in a location situated a minimum of 100 metres from any water body or drainage course. Fuel is provided by the camp outfitter. MSDS information can be obtained upon request from the outfitter after the award of the contract.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Please see the attached Drawings for the location of the water supply lake at FOX-3.

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

Domestic Use: (200 L/day/person x 25 persons). Water Source: water supply lake
Other (construction): N/A

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

Water will be pumped into a holding tank mounted on a trailer 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, as per the *Freshwater Intake, End-of-Pipe Fish Screen Guidelines*.

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

The water supply lake at FOX-3 will be tested for potability immediately upon arrival at the site and at least once per week, thereafter. The parameters to be analyzed include: chlorine, sodium, potassium, magnesium, calcium, iron, manganese, conductivity, hardness, nitrate, nitrite, sulphate, pH, total coliforms, and E. Coli.

It is anticipated that commercially bottled water may be supplied for drinking purposes.

30. Will drinking water be treated? How?

If required, drinking water will be treated in accordance with the Health Canada Guidelines for Canadian Drinking Water Quality. Iodine, chlorination and/or thermal heat treatment are common on-site drinking water treatments.

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:

Camp Sewage (blackwater)
Camp sewage will be disposed of in pit toilets or incinerator toilets. Any pits will be backfilled with granular material.

Camp Greywater
All greywater will be discharged to a pit. The greywater pit will be backfilled prior to departure from the site.

Solid Waste
Non-hazardous combustibles will be incinerated on site. Ash and residual waste will be buried. Laboratory waste and non-combustibles will be packaged and stored in one of the buildings at FOX-3 for disposal during the clean up.

Bulky Items/Scrap Metal
All excess fuels, camp equipment and facilities will be removed from the site after the completion of the site investigation.

Waste Oil/Hazardous Waste
It is not anticipated that the site investigation activities will generate any hazardous wastes. Equipment oil changes will be performed prior to mobilizing to the site.

Empty Barrels/Fuel Drums
Empty barrels and fuel drums will be removed from the site during demobilization.

Other:

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

Domestic, non-hazardous solid wastes will be incinerated in an enclosed container, likely an empty barrel. The container will be located at least 100 metres away from the camp, any site facilities, natural water courses or water bodies. A fire extinguisher will be 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 packaged and stored in an on-site building, such as the warehouse or hangar, for disposal during clean up

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?

The water supply and waste treatment/disposal methods proposed for use during the FOX-3 site investigation have been employed with success during previous DEW Line site investigations at 12 of the 21 sites in the Canadian Arctic. No outstanding problems were discovered during the operation of these camps.

ABANDONMENT AND RESTORATION

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

All equipment, materials and supplies brought to the site during the site investigation will be removed from site following the completion of the site activities or packaged and stored in a building for reuse/disposal during the clean up. All test pits and excavations will be backfilled. Waste products will be disposed of as described in sections 32 to 34.

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:

Soil and water samples will be collected as part of the site investigation.

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.