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EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: **Indian and Northern Affairs Canada** Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Jared Buchko (Public Works & Government Services Canada)**
Tel: **780-497-3886** Fax: **780-497-3842** E-mail: **jared.buchko@pwgsc.gc.ca**
2. Project Manager: **Lou Spagnuolo (Indian & Northern Affairs Canada)**
Tel: **867-979-7936** Fax: **867-979-6445** E-mail: **spagnuolol@inac.gc.ca**
3. Does the applicant hold the necessary property rights? **Yes**
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? **No**
If so, please provide letter of authorization.
5. Duration of the Project
☒ Annual
☐ 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: _____
☐ 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?

The camp will be occupied for a maximum of 20 days by a maximum of 10 people (average of 6).

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

The former FOX-A DEW Line site is located at 69°13' N, 77°14' W on Bray Island. FOX-A is approximately 175 km east of Igloolik and 170 km northeast of Hall Beach. The site is situated exclusively on Crown land with the main station buildings located on the west side of Bray Island approximately at an elevation of 30 m.

The site is located on an island and accessible by sea- lift. In addition, there are two airstrips, which are accessible for most of the year. Site maps and drawings are included in this submission to assist the reviewer in visualizing the site (see Appendix A).

The former FOX-A Intermediate DEW Line site was constructed in 1957 and subsequently closed and abandoned in 1963. In 1965, responsibility for the site reverted to DIAND. Between 1990 and 1993 DND constructed an unmanned Short Range Radar (SRR) on the former FOX-A site. Facilities associated with the SSR facility include a technical services building with an emergency shelter, diesel tanks, helipad, communication domes, an old shack and the construction camp accommodation module.

(See Appendix C – Detailed Work Plan)

CAMP LOCATION

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

The FOX-A radar facilities consisted of a module train, warehouse, garage, Inuit house, POL tanks, Quonset huts, storage pads, a radar tower and airstrips. The main station buildings are located on the western side of Bray Island at an elevation of no more than 30 m above sea level.

Raised and fairly well drained beach ridges are present around the island, especially close to the shoreline. The inland portion of the island is poorly drained and contains marshy areas, large shallow lakes and ponds. At the time of the 1993 site assessment, only the garage, POL tanks and Inuit house were standing with all other buildings removed, demolished or collapsed. The two airstrips; one 1,400 m strip located at the beach and one 1,100 m strip near the station, were reported to be in good condition. Multiple landfills have been identified in areas east and west of the former station.

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 will be sited directly adjacent to the existing buildings in areas that have been previously disturbed. Existing buildings will not be used as camp facilities as they may contain contaminants and are not suitable for occupation during the project.

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

<input checked="" type="checkbox"/> Crown Lands	Permit Number (s)/Expiry Date: <u>see Appendix 3</u>
<input type="checkbox"/> Commissioners Lands	Permit Number (s)/Expiry Date: _____
<input type="checkbox"/> Inuit Owned Lands	Permit Number (s)/Expiry Date: _____

12. Closest Communities (distance in km):

The closest communities are Hall Beach, 170km SW, and Igloolik, 175 km W of the site.

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

No public consultations have been completed on this project to date. However, the communities of Hall Beach and Igloolik will be contacted to provide any information regarding the historical and current use of the site. This information will be incorporated into the final Phase III Environmental Site Assessment report. In addition, presentations will be conducted in Hall Beach and Igloolik in late 2006 in which the results of the site assessment will be presented to the Hamlet Councils, Hunters & Trapper Organizations and general public. These stakeholders will also be asked to assist in the design of the proposed remediation plan at this meeting

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?

The Phase III Environmental Site Assessment program proposed for this year will have an overall positive environmental & socio-economic impact. No Environmental Impacts are expected as a result of the activities planned under this application. All the proposed activities will occur after nesting season, nonetheless, every effort will be made to ensure no impact to nesting migratory birds.

PURPOSE OF THE CAMP

15. ☐ Mining
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☒ Other Phase III Environmental Site Assessment (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.

See the attached Spill Contingency Plan (Appendix B).

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

Two drum type spill kits will be located adjacent to the fuel containment area and will be capable of absorbing 174L of liquid hydrocarbons. In addition, a smaller spill kit will be located by the pump used to transport non-potable water.

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

All liquid fuels will be stored in barrels on pallets within a containment area surrounded by a 0.5 m berm and lined with hydrocarbon resistant material. Refueling activities will occur directly from the barrels in the containment area into the respective vehicle. The containment area will be located on flat, even ground at a distance of no less than 30 m away from the camp and any natural drainage area or water body. Propane will be stored in 45 kg (100 lb) certified tanks near the kitchen tent.

**Gasoline: Approximately 1025 L stored in five 205 L barrels;
Diesel: Approximately 3075 L stored in fifteen 205 L barrels;
Propane: Three 45 kg tanks; and**

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The expected water source will be the Freshwater Lake near the abandoned station (see Appendix A – Site Maps). Samples from this lake have been taken and conform to Canadian Drinking Water

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

- ☒ Domestic Use: 150 L /day/person Water Source: Freshwater Lake
- ☐ 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 will be pumped to the camp via a small horsepower pump and water intake pipe placed overland and equipped with a small mesh screen. The pump will be placed at least 30 m from water bodies and a spill kit will be sited near the pump.

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

Freshwater Lake has already been sampled as part of the 1993 Environmental Sciences Group site investigation and conforms to the Canadian Drinking Water standard. Additional samples will be taken once onsite to confirm these results.

30. Will drinking water be treated? How?

No.

31. Will water be stored on site?

No.

WASTE TREATMENT AND DISPOSAL

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

- ☒ Camp Sewage (blackwater)

All camp sewage will be disposed of in a temporary sump.

-
- ☒ Camp Greywater

All camp greywater will be disposed of in a temporary sump.

-
- ☒ Solid Waste

Combustible solid waste will be incinerated on-site using an approved incinerator unit. All non-combustible solid waste will be containerized and stored onsite for disposal under the 2008 Remediation project.

-
- ☐ Bulky Items/Scrap Metal

n/a

⊗ Waste Oil/Hazardous Waste

All hazardous waste will be consolidated and shipped off-site, in accordance to the Transportation of Dangerous Goods Act, for disposal at an approved southern facility.

○ Empty Barrels/Fuel Drums

n/a

○ Other:

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

Combustible solid waste will be the only waste incinerated onsite. It is anticipated that only a minimal amount of waste will be generated.

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

All hazardous waste will be shipped to an approved southern facility. All non-combustible non-hazardous waste will be containerized and disposed of as part of the 2008 Remediation project.

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

The sump will be excavated a minimum of 100m from the camp, natural drainage courses or water bodies

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

No.

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?

n/a

ABANDONMENT AND RESTORATION

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

Following the completion of this years activity the sump will be back filled and contoured to site conditions.

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:

ESG, 1994 - Environmental Study of Abandoned DEW Line Sites: Six Intermediate Sites in the Eastern Arctic;

SENES, 2003 - Ecological Risk Evaluation for FOX-A; and

SENES, 2003 - Human Health Screening Level Risk Assessment for FOX-A

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
 - ⊗ 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.