



Nunavut Research Institute
Nunavummi Qaujisaqtulirijikkut

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SCIENTIFIC RESEARCH LICENCE APPLICATION
(Land, Freshwater & Marine Based Research)

This application fulfills the requirements for NIRB environmental screening

SECTION 1: APPLICANT INFORMATION	
1. Applicant's full name and mailing address: Indian & Northern Affairs Canada Building 1082, P.O. Box 2200 Iqaluit, Nunavut X0A 0H0 Attention: Lou Spagnuolo	Phone: (867) 979-7936
	Fax: (867) 979-7939
	E-mail: spagnuolol@inac.gc.ca
2. Field Supervisor (address, if different from above): Public Works & Government Services 15 th Floor, 10025 Jasper Avenue Edmonton, AB T5J-4E2 Attention: Jared Buchko	Phone : (780) 497-3886
	Satellite phone: N/A
3. Other Personnel list (name and position):	
Total # of personnel: 10 (max)	
Total # of person days: 200 (max)	

SECTION 2: AUTHORIZATION NEEDED

4. List the organisations you will contact for necessary authorizations associated with the project. (See Appendix A & B):

Nunavut Water Board (Water License);
Indian & Northern Affairs Canada (Land Use Permit); and

5. List the active permits, licences, or rights related to the project and their expiry date:

Currently all permit applications are under review.

SECTION 3: PROJECT PROPOSAL DESCRIPTION

6. Proposed project title: **FOX-A (Bray Island) Environmental Site Investigation**

7. Project duration:

Period of operation: **August 1, 2006** to **September 15, 2006**

8. Location(s) of data collection:

- Land Status Types: Crown, Commissioners', Inuit Owned Surface Lands, Inuit Owned Sub-Surface Lands, & Other
- Please ensure that maps of the project area are attached (1:50 000, 1:250 000)

Location Name	Region	Latitude (north)	Longitude (west)	NTS Map sheet #	Land Status
Bray Island	South Baffin	69°13'	77°14'	37C07 -see also Site Maps (Appendix A)	Federal

For additional sites, attach a separate page

NON-TECHNICAL PROJECT PROPOSAL SUMMARY

9. On a separate page, please include a non-technical description of the project proposal, no more than 300 words, in English & Inuktituk (Inuinaktun, if in the Kitikmeot). The project description should outline the project activities (research methods, camps, etc.) and their necessity, method of transportation, any structures that will be erected, expected duration of activity and alternatives considered. If the proposed activity fits into any long-term developments, please describe the projected outcome of the development for the area and its timeline. (see attached **Executive Summary**)

SECTION 4: MATERIAL USE

10. List equipment (including drills, pumps, aircrafts, etc.):

Equipment type and number	Size -dimensions	Proposed use
1 ATV/Excavator	ATV with excavator att.	Soil sampling
2-4 ATV's	n/a	Site travel
Camp -soft sided tents	10 person capacity	Accommodations
1 Diesel Generator	5 kW	Temporary power
1 Water Pump	n/a	Non-potable water transport

11. Detail fuel and hazardous materials use:

Fuels	Number of Containers	Capacity of Containers (gal & litres)
• Diesel	15	205 Litres
• Gasoline	5	205 Litres
• Aviation fuel	0	n/a
• Propane	3	44 kg
• Other	n/a	n/a
Hazardous Materials	Number of Containers/Concentration	Capacity of Containers (gal & litres)
• n/a	n/a	n/a
•		
•		

12. Describe method of fuel transfer:

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.

13. Describe any procedures and materials in place to handle accidental spills. Please attach the spill contingency plan and other appropriate information about the hazardous materials associated with the proposed project.

See the attached Spill Contingency Plan (Appendix B).

SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

14. Describe amount and methods of disposal:

Type of Waste	Projected Amount Generated	Method of Disposal	Additional Treatment Procedures
Sewage	40 L/person/day	Sump.	Minimum 100m from camp and water bodies.
Grey water	75 L/person/day	Sump.	Minimum 100m from camp and water bodies.
Garbage	minimal	Combustible SW will be incinerated onsite. Non-combustible SW will be stored onsite.	Non-Combustible SW will be handled as part of the comprehensive remediation project, scheduled for 2008.
Overburden (organic soil, waste material, tailings)	n/a		
Hazardous waste:	minimal	All hazardous waste will be properly containerized and stored onsite.	Hazardous waste will be handled as part of the comprehensive remediation project, scheduled for 2008.
Other:	n/a		

SECTION 6: RESTORATION AND ABANDONMENT PLANS

15. Describe or attach the proposed procedure for site restoration upon abandonment of any area associated with the project:

Following the completion of the 2006 Phase III Environmental Site Assessment work the sump will be filled in and contoured to grade. All temporary camp facilities will be removed from the site. No site restoration is planned as part of this permit application. A detailed site Remedial Action Plan will be designed and submitted, under new permits, for the remediation of FOX-A (Bray Island).

SECTION 7: ENVIRONMENTAL IMPACT

16. Indicate and describe the components of the environment that are near the project area, as applicable. Attach any relevant maps or information:

Type of species (common name, associated herd, etc.)	Important Habitat Area (calving, staging, denning, migratory pathways, spawning, nesting, etc.)	Critical time periods (calving, post-calving, spawning, nesting, breeding, etc.)
Example: <i>Narwhal</i>	<i>Ice floe edge in Pond Inlet</i>	<i>June-July, around break-up</i>
Fish:	Char, spawning	Spawning (June -July)
Caribou:		
Muskox:		
Raptor:	Raptors, nesting	Nesting (until August 15th).
Migratory Birds:	Shorebirds, nesting	Nesting (until August 15th).
Waterfowl:	Waterfowl, nesting	Nesting (until August 15th).
Seals:		
Whales:		
Narwhals:		
Canid family (wolves, wolverines, foxes, etc.)		
Bears (grizzly, polar, black):		
Other:		
Eskers:		
Communities:	170 km northeast of Hall Beach 175 km east of Igloolik	n/a
Historical/Archaeological sites:		

17. Indicate and describe other known uses of the area such as local development, traditional use (hunting/fishing/spiritual), outfitting, tourism, mineral development, research, etc.:

Area is located at the north end of Foxe Basin and has been used for hunting purposes.

18. Describe the impacts of the proposed project activity on the environmental components and uses, in the area listed above:

No Environmental Impacts are expected as a result of the activities planned under this application. All the proposed activities will occur after nesting and/or spawning season. Nonetheless, every effort will be made to ensure no impact to nesting migratory birds.

19. What are some suggested mitigation measures for these impacts?

See answer to question 18.