

SCIENTIFIC RESEARCH LICENCE APPLICATION

LAND, FRESHWATER & MARINE BASED RESEARCH

NRI strongly recommends that applicants review the following documents prior to submitting an application: *Scientific Research Licencing Guidelines* and *Negotiating Research Relationships in Inuit Communities: A Guide for Researchers*.

For more information about the Nunavut Research Institute (NRI) please visit our web site www.nri.nu.ca

IMPORTANT

This application fulfills the requirements for the NIRB environmental screening. Please be advised that your application will not be processed until the application form, project summary, and maps are received.

SECTION 1: APPLICANT INFORMATION

1a. Project Title Resolute Bay Risk Management Plan

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal? Yes _____ No **X** _____

If yes, please indicate the previous NRI licence number: _____

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal? Yes _____ No **X** _____

If yes, please indicate the previous NIRB project number(s): _____

2. Applicant's full name and mailing address:

Darryl Pederson, Superintendent, Contaminated Sites Management Program, Environmental Affairs, Transport Canada

1100, 9700 Jasper Avenue Northwest, Edmonton
Alberta, T5J 4E6

Phone: 780 495 6046

Fax: 780 495 4748

Email: darryl.pederson@tc.gc.ca

3. Field Supervisor's name and mailing address:

Michael Molinski – Environmental Officer
344 Edmonton Street, Winnipeg
Manitoba, R3C 0P6

Phone: 204-984-0440

Fax: 204-983-5048

Email: Michael.molinski@tc.gc.ca

4. Other Personnel list (name, position, affiliation)

_____	_____
_____	_____
_____	_____

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

☐ Regional Inuit Association (RIA)

☐ Nunavut Water Board (NWB)

- ☐ Nunavut Planning Commission (NPC)
☐ Department of Indian And Northern Development (DIAND)
☐ Department of Fisheries and Oceans (DFO)
☐ Community Government & Services (CG&S)
☐ Nunavut Research Institute (NRI/GN)
☐ Department of Culture, Language, Elders, and Youth (CLEY/GN)
☐ Canadian Launch Safety (CLS)
☐ Environment Canada (EC)

- ☐ Department of Environment (GN)
☐ Department of National Defense (DND)
☐ Hamlet
☐ Parks Canada (PC)
☐ Canadian Wildlife Service (CWS)
☒ Nunavut Airports, Department of Economic Development and Transportation

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

3. Have you applied for all authorizations required to conduct the project proposal activities?

X-YES

☐ NO

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the activities related to the project proposal:

- ☐ Temporary camp (to be removed at end of field season)
☐ Permanent camp (to remain for life of authorization)
☐ Construction of recreational or safety cabin
☐ Temporary fuel storage (to be removed at end of field season)
☐ Permanent fuel storage (to remain for life of authorization)
☐ Placement of structures for life of permit (other than camp or cabin – i.e. scientific instruments)
☐ Placement of permanent structures (other than camp or cabin – i.e. scientific instruments)
☐ Air surveys (i.e. geophysical, wildlife)
☐ Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location
☒ Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac)
☐ Sewage or grey water disposal via sump
☐ Hazardous waste storage or disposal
☐ Solid waste disposal
☐ Chemical storage
☐ Explosives storage
☒ Soil testing

- ☐ Soil disposal/ soil storage
☐ Incineration of combustible wastes and removal of non-combustible wastes
☐ River/ stream/ lake crossing or work/ bridge
☐ Drainage alteration
☐ Geoscientific sampling by diamond drilling

2. Personnel

Total No. of personnel on site = (A)	4	Total No. of days on-site = (B)	7	Total No. of Person days (A) × (B) = 28
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3. Timing

Period of operation:	Summer 2009	to	Summer 2009
Proposed term of	Summer 2009		Summer 2009

authorization: _____ to _____

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing and scheduling of each phase.

4. Location(s) of data collection:

Location Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute), Long (degree / minute)	NTS Map Sheet #	Land Status Crown, Commissioners', Inuit Owned
Resolute Bay Airport	North Baffin	74° 43' 1" N / 94° 58' 10"	58 F 11	Crown

If the project proposal includes a **camp**, please provide the coordinates of the camp location

Lat (degree/minute) _____ Long (degree/minute) _____

NTS Map Sheet # (if different from above) _____

The Nunavut Impact Review Board may require additional location information in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please attach a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

The proposed project is to investigate the environmental and regulatory deficiencies under the precautionary principle of the Sustainable Development Strategy. The potential exists for adverse environmental effects in the form of migration of contamination, potentially off of airport property. The site has the potential for environmental and human health risks and must be remediated or have a formal scientifically defensible risk management plan developed and implemented for the site.

Alternatives

- Do nothing: This alternative is not considered a viable alternative. It is essential that TC meets its environmental responsibilities under the transfer agreement and exercise due diligence on it's environmental regulatory matters.
- Implement a risk management plan at the Resolute Airport: This alternative consists of completing the Risk management Plan at the Resolute Airport. The benefits of this course of action will ensure that TC meets its responsibilities in accordance with the transfer agreement.

Much of the work involves reviewing the information current available from the site investigations that have occurred in the past (i.e. desk study). However, a preliminary examination of the data available has suggested that data gaps exist. In order to remediate this additional soil, water and vegetation samples will be required in order to fully assess the extend and degree of contamination on-site.

It is expected that additional samples will be collected over the course of one-week during the summer of 2009. A maximum of 4 people will be involved in sample collection. Personnel will utilize hand tools or light excavating equipment to collect the required samples. Experts will be flown to Resolute Bay and will stay in the Hamlet of Resolute while work is being conducted.

The work will be conducted by third party contractors who will be responsible conducting the work and for determining the specific details of that work.

SECTION 5: MATERIAL USE

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

Equipment type and number	Size – dimensions	Proposed use
Hand Shovel	Standard Hand Shovel	Collect samples
Backhoe	Small model	Dig sample trenches 1-2 metres long
Sample jars	Adequately sized to contain sample	Contain soil samples

2. Detail fuel and hazardous material use:

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	N/A		
Gasoline	N/A		
Aviation fuel	N/A		
Propane	N/A		
Other	N/A		
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location
N/A		

4. Have you applied for a Class A License with the Nunavut Water Board?

☐ YES

☒ NO

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
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Sewage (human waste)	N/A		
Greywater	N/A		
Combustible wastes	N/A		
Non-Combustible wastes	N/A		
Overburden (organic soil, waste material, tailings)	N/A		
Hazardous waste	N/A		
Other:	N/A		

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?

☐ YES

☒ X-NO

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Community	Name	Organization	Date Contacted
Iqaluit	Thomas Alikatuktuk	Qikiqtani Inuit Association	19 February 2008

**2. How will the proposed project benefit Nunavut?
Help remediate contaminated sites at the Resolute Bay Airport**

4. Describe and attach documentation regarding community support or concerns for the proposed project:

5. Is there a traditional knowledge component to this research project? If yes, please explain:

N/A

SECTION 8: GENERAL QUESTIONS

1. Do you give NRI permission to publish project information in the Nunavut Research Institute Annual Compendium of Research Undertaken in Nunavut?

☐ YES

☒ X - NO

2. Is the proposed research associated with International Polar Year (IPY)?

☐ YES

X -NO

3. In addition to the application form, applicants are required to submit additional information in an electronic format to the Manager, Research Liaison, cfilion@nac.nu.ca. Please check that the following have been submitted to NRI:

- ☐ **Project Summary** -in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot)
☐ **NTS Maps** of the project

Applicant:

JP Neary
Signature

Environmental Officer
Title

25 Aug 2009
Date