

# 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](http://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**      Monitoring the ice edge break-up in Eclipse Sound

**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:**

Dany Dumont, Professor UQAR/ISMER

310 allée des ursulines C.P. 3300

Rimouski QC G5L 3A1 Canada

Phone: 1-418-723-1986 ext 1570

Fax: 1-418-724-1842

Email: dany\_dumont@uqar.ca

**3. Field Supervisor's name and mailing address:**

Kristin Westdal

515-70 Arthur Street

Winnipeg, MB, R3B 1G7

Phone: 1-204-296-9308

Fax: \_\_\_\_\_

Email: kwestdal@oceansnorth.ca

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

Paul Nicot, Research Assistant, UQAR/ISMER

\_\_\_\_\_

\_\_\_\_\_

### 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)
- Other (please specify): \_\_\_\_\_

2. List the active permits, licences, or other rights related to the project proposal and their expiry date:  
None required

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

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
- Geoscientific sampling by soil sampling
- Geoscientific sampling by trenching
- Geoscientific sampling by borehole core
- Blasting
- Channeling
- Excavation
- Hydrological testing
- Abandonment and restoration
- Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring)
- Research
- Ecological survey
- Harvesting
- Removal of vegetation for scientific purposes
- Other:

**2. Personnel**

Total No. of personnel on site = (A)	4	Total No. of days on-site = (B)	2	<b>Total No. of Person days (A) × (B) = 8</b>
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**3. Timing**

Period of operation: 04.05.2015 to 15.05.2015 (two days within the two weeks for installation)

Proposed term of authorization:

01.08.2015

to

31.08.2015 (1 to 2 days within the month for recovery)

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

There are two phases to the fieldwork. The **installation** of the camera will be done sometime between May 4<sup>th</sup> and 15<sup>th</sup> 2015 by Kristin Westdal, Paul Nicot and two community members from Pond Inlet (to be determined), and the **recovery** of the camera will be done sometime in August by community members from Pond Inlet (to be determined).

#### 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
Erik Harbour	North Baffin	72°34.3'N / 75°51.2'W	038A12	Inuit Owned
Cape Graham Moorew	Bylot Island	72°50.5'N / 76°15.3'W	038B16	Inuit Owned

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 project description is provided at the end of this document.*

### SECTION 5: MATERIAL USE

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

Equipment type and number	Size – dimensions	Proposed use
Camera system (2)	approx. 50cm × 50cm × 70cm when fully deployed	Taking pictures autonomously

**2. Detail fuel and hazardous material use:** No fuel or hazardous material will be use except for transportation on site with snowmobiles and boats

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel			

Gasoline			
Aviation fuel			
Propane			
Other			
<b>Hazardous Materials and Chemicals</b>		<b>Total Amount of Hazardous Materials and Chemicals (in Litres)</b>	

### 3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location

### 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
Sewage (human waste)			
Greywater			
Combustible wastes			
Non-Combustible wastes			
Overburden (organic soil, waste material, tailings)			
Hazardous waste			
Other:			

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

YES

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


**2. How will the proposed project benefit Nunavut?**

The proposed project will look at sea ice dynamics and effect of shipping on the break-up of the ice edge in Spring. This project will focus on some of the community concerns associated with proposed year-round shipping associated with the Mary River mine. Monitoring the landfast ice cover during break-up in Eclipse Sound will help determine a baseline state prior to any year-round shipping that may take place in the future.

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

Kristin Westdal will meet with the HTO in Pond Inlet in late March to further discuss the project and will forward an anticipated letter of support for the work. There are no concerns that we are aware of related to this project.

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

Traditional knowledge may become important for assessing the importance of the ice cover and ice edge for the community and the ecosystem if a publication is considered.

**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

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](mailto: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:**



Signature

Professor

Title

16.03.2015

Date