

# 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** Origin of coloured spinel occurrences in Southern Baffin Island, Nunavut:  
Implications for local gemstone potential

### 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:

Philippe Belley Phone: 613-204-3011 (cell)  
Dept of Earth Sciences, University of British Columbia Fax: \_\_\_\_\_  
6339 Stores rd, Vancouver, BC V6T 1Z4 Email: pbelley@eos.ubc.ca

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

Lee Groat Phone: 604-312-3516  
Dept of Earth Sciences, University of British Columbia Fax: \_\_\_\_\_  
6339 Stores rd, Vancouver, BC V6T 1Z4 Email: groat@mail.ubc.ca

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

Field assistant (not yet selected) \_\_\_\_\_  
Local guide and boat driver (for MacDonald Isl., \_\_\_\_\_  
Glencoe Isl., and Waddell Bay) \_\_\_\_\_

## SECTION 2: AUTHORIZATION NEEDED

1. Identify all known regulatory authorizations required for the project (include all that may apply):

Y/N

Y	Regional Inuit Association: Land Use Permit/Exemption Certificate
Y	Nunavut Planning Commission: Plan Conformity Determination (Kivalliq, North Baffin only)
N	Aboriginal Affairs, Northern Development Canada (GOC): Land Use Permit / Fuel Cache Notification
N	Department of Fisheries and Oceans (GOC): Fisheries Research License, Marine Mammal transport license
N	Environment Canada/Canadian Wildlife Service: Migratory Bird Research permit Environment
N	Canada/Canadian Wildlife Service: Access to National Wildlife Area
N	Parks Canada: National Parks Research Permit
N	Community and Government Services (GN): Municipal Land Lease
N	Culture and Heritage (GN): Archeology/Paleontology Research Permit
N	Department of Environment (GN): Wildlife Research Permit

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

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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:

<input checked="" type="checkbox"/>	Temporary camp (to be removed at end of field season)	<input type="checkbox"/>	Soil disposal/ soil storage
<input type="checkbox"/>	Permanent camp (to remain for life of authorization)	<input type="checkbox"/>	Incineration of combustible wastes and removal of non-combustible wastes
<input type="checkbox"/>	Construction of recreational or safety cabin	<input type="checkbox"/>	River/ stream/ lake crossing or work/ bridge
<input type="checkbox"/>	Temporary fuel storage (to be removed at end of field season)	<input type="checkbox"/>	Drainage alteration
<input type="checkbox"/>	Permanent fuel storage (to remain for life of authorization)	<input type="checkbox"/>	Geoscientific sampling by diamond drilling
<input type="checkbox"/>	Placement of structures for life of permit (other than camp or cabin – i.e. scientific instruments)	<input type="checkbox"/>	Geoscientific sampling by soil sampling
<input type="checkbox"/>	Placement of permanent structures (other than camp or cabin – i.e. scientific instruments)	<input type="checkbox"/>	Geoscientific sampling by trenching
<input type="checkbox"/>	Air surveys (i.e. geophysical, wildlife)	<input type="checkbox"/>	Geoscientific sampling by borehole core
<input checked="" type="checkbox"/>	Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location	<input type="checkbox"/>	Blasting
<input checked="" type="checkbox"/>	Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac) <b>atvrental if available</b>	<input type="checkbox"/>	Channeling
<input type="checkbox"/>	Sewage or grey water disposal via sump	<input type="checkbox"/>	Excavation
<input type="checkbox"/>	Hazardous waste storage or disposal	<input type="checkbox"/>	Hydrological testing
<input type="checkbox"/>	Solid waste disposal	<input type="checkbox"/>	Abandonment and restoration
<input type="checkbox"/>	Chemical storage	<input type="checkbox"/>	Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring)
<input type="checkbox"/>	Explosives storage	<input checked="" type="checkbox"/>	Research
<input type="checkbox"/>	Soil testing	<input type="checkbox"/>	Ecological survey
		<input type="checkbox"/>	Harvesting
		<input type="checkbox"/>	Removal of vegetation for scientific purposes
		<input checked="" type="checkbox"/>	Other: Small-scale geoscientific sampling (hammers, chisels, small rotary hammer)

## 2. Personnel

Total No. of personnel on site = (A)	3 5	Total No. of days on-site = (B)	6 8	Total No. of Person days (A) × (B) = 58
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## 3. Timing

Period of operation:	<u>August 6, 2016</u>	to	<u>August 20, 2016</u>
Proposed term of authorization:	<u>July 01, 2016</u>	to	<u>September 10, 2016</u>

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

Setting up temporary camp, conducting research for 1-3 days, packing up, moving to next research site.

## 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
Glencoe Island	S. Baffin	N 63.08041°, W 71.46496°	025M03	Inuit owned
Macdonald Island	S. Baffin	N 63.69845°, W 72.47447°	035P09	Crown
NE Soper Lk.	S. Baffin	N 62.89244°, W 69.84075°	025K13	Inuit owned
Qila	S. Baffin	N 62.81938°, W 69.87844°	025K13	Municipal (Kimmirut)
SE Soper Lk.	S. Baffin	N 62.86565°, W 69.87020°	025K13	Inuit owned
Soper River	S. Baffin	N 63.01267°, W 69.72608°	025N03	Crown
Trailside	S. Baffin	N 62.83931°, W 69.89869°	025K13	Municipal (Kimmirut)
Waddell Bay	S. Baffin	N 63.41842°, W 66.96841°	025O07	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) \_\_\_\_\_

**Temporary camp at each location, or central location for south of Kimmirut**

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:

- Project Title
- Researcher's Name and Affiliation
- Project Location
- Timeframe

- Project Description
  - purpose
  - goals & objectives
  - method of transportation
  - any structures that will be erected (permanent / temporary)
  - restoration / abandonment plans
- Methodology
  - collection protocol
  - collection mechanisms
  - indicate why specific communities or individuals were selected for your research
- Data
  - short term & long term use of data
  - other uses of data
- Reporting
  - How will the research results be communicated to the individual participants, communities, regional and Nunavut organizations?
  - Will the research result in a publication?

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### SECTION 5: MATERIAL USE

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

Equipment type and number	Size – dimensions	Proposed use
N/A		

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

Will you cache fuel on Crown or Inuit Owned Lands to support field research activity

YES  NO (Circle One)

If YES, please complete the table below; provide details for each planned fuel cache

Cache Size (amount of fuel in litres)	Fuel Type	Cache Location (UTM or Lat/Long)	Container Type/Size	Proposed Removal Date
N/A				

Researchers must notify the Lands Division of AANDC of any fuel caches on Federal Crown Lands in Nunavut, notification is required within 30 days of establishing the cache. Researchers must also apply in advance to the appropriate Regional Inuit Association for permission to cache fuel on Inuit Owned Lands in Nunavut.

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval (source) location
40 L (up to)	bucket	streams

Please note: You may use up to 50 cubic meters of water per day in Nunavut without obtaining a licence from the Nunavut Water Board, however, you must apply to The Nunavut Water Board for authorization to use water without a license.

Any water use in excess of 50 cubic meters of water may require a Class A license from the Water Board.

**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)	3-5 L / day	Burial	
Greywater	25 L / day 25-35 L/day	Burial in shallow trench	
Combustible wastes	0		
Non-Combustible wastes	0 (all waste packed out)		
Overburden (organic soil, waste material, tailings)	0		
Hazardous waste	0		
Other:	0		

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

YES

NO

3. Will you deposit sewage to a sump?

YES

NO

(Circle One)

\*If yes, have you applied to the Nunavut Water Board for approval to deposit waste without a license (required for any deposit of sewage to a sump in Nunavut)

YES

NO

(Circle One)

N/A

## 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
Kimmirut		Hunters & Trappers	22 Feb. 2016
Kimmirut		Senior Admin. Officer	"
Iqaluit		Hunters & Trappers	"
Iqaluit	Tracy Cooke (clerk)	Chief Admin. Officer	"

2. Please identify any employment, contracting or training opportunities for Nunavut residents that may result from the project.

We will employ a local guide to help us travel to the various localities; Boat rental to access Islands and Waddell Bay

3. Please identify any potential risks to the health, safety or livelihoods of Nunavut residents that may result from the project?

n/a: small scale research project with negligible impact

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

Proposed research approved by Kimmirut community (presented by SAO at community meeting)

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

No

**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?

X YES

NO

2. If your research is related to climate change, do you agree to share your annual summary report with the Nunavut Climate Change Centre at [climatechange@gov.nu.ca](mailto:climatechange@gov.nu.ca)?

YES

No

n/a

(Highlight or Check one)

3. In addition to the application form, applicants are required to submit additional information in an electronic format to the Manager, Research Liaison, at [mosha.cote@arcticcollege.ca](mailto:mosha.cote@arcticcollege.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:

Philippe Belling  
Signature

Ph.D. student  
Title

14 March, 2016  
Date