



## 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*.

### 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. All documents should be uploaded in the following formats: MS Word, Adobe PDF or jpeg.

### SECTION 1: APPLICANT INFORMATION

1a. Project Title Architecture, evolution and metallogeny of Mesoproterozoic sedimentary basins of the eastern Canadian Arctic Islands

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 licence number(s): \_\_\_\_\_

2. Applicant's full name and mailing address:

Dr. Elizabeth C. Turner  
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University  
Sudbury ON P3E 2C6

Phone: 705-675-1151 x2267  
Fax: 705-675-4898  
Email: eturner@laurentian.ca

3. Field Supervisor's name and mailing address:

as above

Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

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

Dr. Darrel G.F. Long  
graduate student assistants (2)  
\_\_\_\_\_

Professor, Laurentian University  
Laurentian University  
\_\_\_\_\_

### SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

- |  |   |
|--|---|
| <input type="checkbox"/> Regional Inuit Association (RIA)  | <input type="checkbox"/> Canadian Launch Safety (CLS)   |
| <input type="checkbox"/> Nunavut Water Board (NWB)         | <input type="checkbox"/> Environment Canada (EC)        |
| <input type="checkbox"/> Nunavut Planning Commission (NPC) | <input type="checkbox"/> Department of Environment (GN) |

☐ 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)

☐ 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:

Permit:

Expiry Date

\_\_\_\_\_

\_\_\_\_\_

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

☐ Harvesting

☐ Other: \_\_\_\_\_

☐ 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

☐ Removal of vegetation for scientific purposes

2. Personnel

Total No. of personnel on site = (A)

4

Total No. of days on-site = (B)

39

Total No. of Person days (A) Ã— (B) =

156

3. Timing

Period of operation:

June 17, 2009

to July 26, 2009

Proposed term of authorization:

June 1, 2009

to Aug 15, 2009

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

This project is expected to have three years of field data-gathering. There will be no construction. All work will be performed on foot from a series of backpacking-style camps placed by aircraft. Each camp will be completely removed at the end of the few

4. Location(s) of data collection:

| Location Name  | Region<br>North Baffin, South Baffin, Kivalliq, Kitikmeot | Co-ordinates<br>Lat (degree / minute), Long (degree / minute) | NTS Map Sheet Nr. | Land Status<br>Crown, Commissionersâ€™, Inuit Owned |
|----------------|---|---|-------------------|---|
| Adams Sound    | N. Baffin   | 72°50.5' / 84°17.5'   | 48B               | crown   |
| Society Cliffs | N. Baffin   | 73°01.5' / 85°17.25'  | 48C               | crown   |
| Fleming Inlet  | N. Baffin   | 72°24.5' / 85°08'   | 48B               | IOL   |
| Paquet Bay 1   | N. Baffin   | 71°54.75' / 78°22.75'   | 37G               | IOL   |

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

Lat (degree/minute)

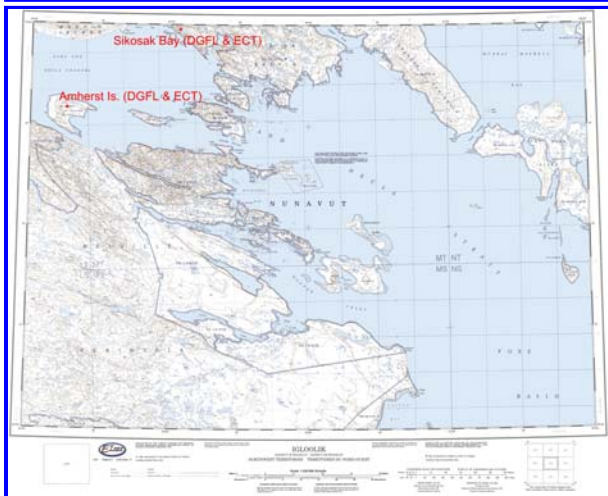
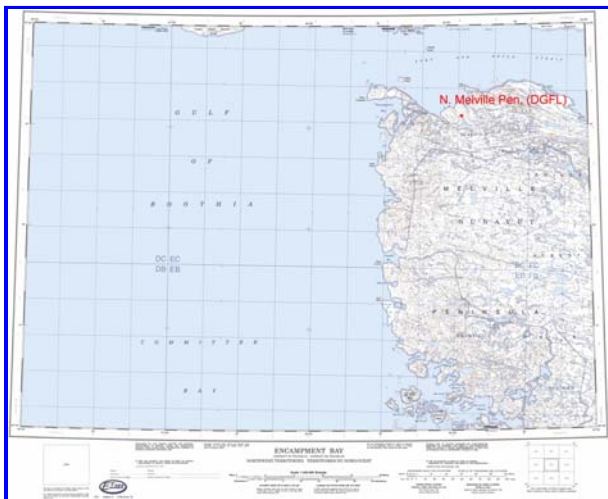
Long (degree/minute)

All of the above are locations of temporary camps (several days each). A total of 9 camp locations are required. They do not fit on this form, so please see the spreadsheet sent to NRI for the 5 other locations.

NTS Map Sheet Nr. (if different from above)

Please attach maps (preferably 1:250,000 scale) which clearly indicate camp sites and research sites. PDF, jpeg or tiff versions are requested.





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?

SECTION 5: MATERIAL USE

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

| Equipment type and number | Size â€” dimensions | Proposed use           |
|---------------------------|---------------------|------------------------|
| helicopter (206L)         | —                   | place and remove camps |
| —                         | —                   | —                      |
| —                         | —                   | —                      |
| —                         | —                   | —                      |
| —                         | —                   | —                      |
| —                         | —                   | —                      |
| —                         | —                   | —                      |

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                            | —   | —   | —  |
| Gasoline                          | —   | —   | —  |
| Aviation fuel                     | —   | —   | —  |
| Propane                           | —   | —   | —  |
| Other                             | white gas (camp fuel)                           | 20 litres   | jerry cans with absorbent paper for spills |
| 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 |
|--------------------------|----------------------------------|-----------------------------------|
| 20 litres                | —                                | stream near each camp             |

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

|     |     |     |    |
|-----|-----|-----|----|
| ( ) | YES | (x) | 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)                                | 2 kg/day                   | burial                    | —                               |
| Greywater   | 10 litres/day              | burial                    | —                               |
| Combustible wastes                                  | ¼ garbage bag/week         | removal to municipal dump | —                               |
| Non-Combustible wastes                              | ¼ garbage bag/week         | removal to municipal dump | —                               |
| 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?

(x) 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:

| Minute<br>Community | Name  | Organization | Date Contacted |
|---------------------|-------|--------------|----------------|
| _____               | _____ | _____        | _____          |
| _____               | _____ | _____        | _____          |
| _____               | _____ | _____        | _____          |

2. How will the proposed project benefit Nunavut? Will your project provide local employment or training opportunities? Please specify.

The project is designed to identify areas where economic mineral deposits could be present. This directly contributes to the long-term economic benefit of Nunavut.

\_\_\_\_\_  
\_\_\_\_\_

3. Please describe the nature of local services and/or logistic support that will be required from local communities, eg. Equipment, accommodations, outfitting, translations...

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 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

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

☐ YES

☒ NO

Applicant:

|           |       |       |
|-----------|-------|-------|
| _____     | _____ | _____ |
| Signature | Title | Date  |