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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 [The ultra-warm Arctic ca. 90 million years ago](#)

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal?

Yes (☐) No (☒)

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 (☒)

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

2. Applicant's full name and mailing address:

[Professor John A. Tarduno](#)

[Department of Earth & Environmental Sciences](#)

[University of Rochester Rochester NY 14618 USA](#)

Phone: [585-275-5713](#)

Fax: [585-244-5689](#)

Email: john@earth.rochester.edu

3. Field Supervisor's name and mailing address:

[Same as above](#)

Phone:

Fax:

Email:

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

[Richard Bono, University of Rochester student](#)

[Rob McKinley, University of Rochester student](#)

[Alayna Callahan, University of Rochester student](#)

[Jenna Kaempfer, University of Rochester student](#)

[Penny Higgins, University of Rochester Scientist](#)

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 checked="" 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) |
| <input type="checkbox"/> Department of Indian And Northern Development (DIAND) | <input type="checkbox"/> Department of National Defense (DND) |
| <input type="checkbox"/> Department of Fisheries and Oceans (DFO) | <input type="checkbox"/> Hamlet |
| <input type="checkbox"/> Community Government & Services (CG&S) | <input type="checkbox"/> Parks Canada (PC) |
| <input checked="" type="checkbox"/> Nunavut Research Institute (NRI/GN) | <input type="checkbox"/> Canadian Wildlife Service (CWS) |
| <input type="checkbox"/> Department of Culture, Language, Elders, and Youth (CLEY/GN) | <input type="checkbox"/> 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:**

- | | |
|--|--|
| <input 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 type="checkbox"/> Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location | <input type="checkbox"/> Blasting |
| <input type="checkbox"/> Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac) | <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 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: camping at 3 areas using mountaineering low-impact tents | |

2. PersonnelTotal No. of
personnel on 6
site = (A)Total No. of
days on-site 11
= (B)Total No. of
Person days 66
(A) A— (B)
=**3. Timing**

Period of operation:

[6/28/12](#)to [7/28/12](#)

Proposed term of authorization:

to

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

[We are just camping at three locations between 6/28 and 7/28; person days for Site B are 5 persons x 11 days = 55 person days and for site C, 5 person for 7 days=35 person days](#)

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 Nr.	Land Status Crown, Commissioners'™, Inuit Owned
Expedition F.	Qikiqtaaluk	79/23'50' 'N, 92/10'54"W	059G08	Crown
Bunde F.	Qikiqtaaluk	80/32'0"N, 94/48'0"W	560A12	Crown
Hansen Pt.	Qikiqtaaluk	82/30'0"N, 82/10'0"W	340F10	Crown

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

Lat (degree/minute)

[see above](#)

Long (degree/minute)

[see above](#)

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.

[land-expeditionfiord.pdf](#)

[land-Bunde.pdf](#)

[land-HansenPt.pdf](#)

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?

[land-Tarduno_summary.pdf](#)

[land-Tarduno_summary Inuktitut.pdf](#)

SECTION 5: MATERIAL USE

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

Equipment type and number	Size & dimensions	Proposed use
NA		

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	1	20	white gas for cooking stored in container with tub as secondary containment
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	
None.			

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location
8	collected with bottle	local small streams

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

()	YES	()	NO
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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:	variable camp waste	removed by helicopter by Canadian Polar Shelf Project	NA

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:

Minute			
Community	Name	Organization	Date Contacted
Grise Fiord	Meeka Kiguktak	Major	Dec 22, 2011

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

The research may benefit Nunavut by contributing to our understanding of the geological development of the area.

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

Our logistic supported is provided from the Canadian Continental Polar Shelf Project.

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

NA

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?

☒ YES

☐ NO

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

☐ YES

☒ NO

Applicant:

John Tarduno

Professor of Geophysics

April 2, 2012

Signature

Title

Date

P.O. Box 1720 Iqaluit, NU, X0A 0H0 • PHONE: 867-979-7279 • FAX: 867-979-7109 • email mosha.cote@arcticcollege.ca

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