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. I	Project Title	Long-term limnological and paleol central Baffin Island, Nunavut, Car		al mon	itoring o	f Nettilli	ng Lake,
1b.	Project Number						
	ase indicate if appli ted to this project p	cant has submitted any previous appli	cation(s) to	NRI	. 00	X	No
If ye	s, please indicate	the previous NRI licence number:	01-035-0	9R-M	01-006-1	12N-M	
	ase indicate if appli ted to this project p	cant has submitted any previous appli proposal?	cation(s) to	NIRB	Yes		No
If ye	s, please indicate	the previous NIRB project number(s):	10YN041				
2.	Applicant's full I	name and mailing address:	- Dhana	4	40.050.04	04 aut 1	7000
		ntz Nordiques, Université Laval	_ Phone: Fax:	4	18-656-21	56-2978	7006
	Pavillon Abitibi-Pi		Email:	reinha	ard.pienitz		laval.ca
	2405, rue de la T	errasse			•		
•	Québec, QC, G1	V 0A6	_				
3.	Field Supervisor	r's name and mailing address:					
•	Mr. Denis Sarrazi		Phone:	4	18-656-21	31 ext.	4299
,		Nordiques, Université Laval	_ Fax:			56-2978	
	Pavillon Abitibi-Pi 2405, rue de la T		Email:	denis	.sarrazin@	®ce.ulav	al.ca
	Québec, QC, G1						
	<u> </u>		_				
4.	affiliation)	l list (name, position,					
		ncic, PhD candidate, CEN					
		loin, MSc candidate, CEN					
	Dr. Bernhard Cha Germany	apligin, AWI Potsdam,					
	Germany						

	SECTION 2: AU	THORIZATION NEEDED					
1.	1. Indicate <u>all</u> authorizations associated with the project proposal:						
x	Regional Inuit Association (RIA) Nunavut Water Board (NWB) Nunavut Planning Commission (NPC) Department of Indian And Northern Developmen (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 <u>active</u> permits, licences, or other rieexpiry date:	ights related to the project proposal and their					
3.		lired to conduct the project proposal activities?					
	X YES	□ NO					
	SECTION 3: PROJECT PROPOSAL DESCRIPTION						
	OLOTION 3. I NOULOT I	Indicate the activities related to the project proposal:					
1.							
1.	Indicate the activities related to the project pro	roposal:					
1.	Indicate the activities related to the project pro Temporary camp (to be removed at end of field season)	Soil disposal/ soil storage Incineration of combustible wastes and					
1.	Indicate the activities related to the project pro Temporary camp (to be removed at end of field season) Permanent camp (to remain for life of authorization)	Soil disposal/ soil storage Incineration of combustible wastes and removal of non-combustible wastes					
	Indicate the activities related to the project pro Temporary camp (to be removed at end of field season) Permanent camp (to remain for life of authorization) Construction of recreational or safety cabin	Soil disposal/ soil storage Incineration of combustible wastes and removal of non-combustible wastes River/ stream/ lake crossing or work/ bridge					
1.	Indicate the activities related to the project pro Temporary camp (to be removed at end of field season) Permanent camp (to remain for life of authorization)	Soil disposal/ soil storage X Incineration of combustible wastes and removal of non-combustible wastes X River/ stream/ lake crossing or work/ bridge Drainage alteration					
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	Indicate the activities related to the project pro- 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)	Soil disposal/ soil storage X Incineration of combustible wastes and removal of non-combustible wastes X River/ stream/ lake crossing or work/ bridge Drainage alteration Geoscientific sampling by diamond drilling X Geoscientific sampling by soil sampling					
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2. Personnel				
Total No. of personnel on site = (A)	4	Total No. of days on-site = (B)	5	Total No. of Person days (A) × (B) = 20
3. Timing				
Period of operation:		1 August 2013	to	5 August 2013
Proposed term of		2013		2014
authorization:			to	

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

- 1) Research team would fly with commercial carrier from Ottawa or Montreal to Iqaluit on 30 July 2013 and spend 2 nights at Frobisher Inn in Iqaluit. Research team members will meet with NRI and Environment Canada representatives to inform them about research project plans and objectives.
- 2) Ferry research team and gear from Iqaluit to CWS field camp on Nikko Island, Nunavut. Transportation on fixed wing aircraft (Twin Otter) chartered by PCSP on 1 August 2013.
- 3) Transport of research team members between CWS camp and sampling sites within Nettilling Lake catchment. Transportation on Bell 206L helicopter provided by PCSP between 2 to 4 August 2013. Helicopter stays at CWS camp on Nikko Island for 3 consecutive days of fieldwork.
- 4) Ferry research team and gear from CWS field camp on Nikko Island back to Iqaluit. Transportation on fixed wing aircraft (Twin Otter) chartered by PCSP on 5 August 2013.
- 5) Research team would spend another 2 nights at Frobisher Inn in Iqaluit, report to NRI and Environment Canada representatives, and then fly home with commercial carrier from Iqaluit to Ottawa or Montreal on 7 August 2013.

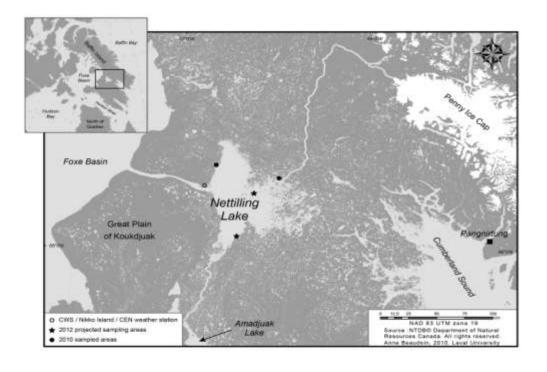
4. Location(s) of data collection:

Location	Region	Co-ordinates	NTS Map	Land Status
Name	North Baffin, South Baffin, Kivalliq, Kitikmeot	Lat (degree / minute), Long (degree / minute)	Sheet #	Crown, Commissioners', Inuit Owned
Lake Nettilling	South Baffin	66°31'N; 70°41'W	26L and 26K	Inuit Owned

If the project proposal ir	iciudes a camp , plea	se provide the coordinates	s of the camp location
Lat (degree/minute)	66°36'N	Long (degree/minute)	71°33′W
NTS Map Sheet # (if dif	ferent from above)	26L	

PLEASE REFER ALSO TO FIGURE 1 BELOW

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?

PLEASE REFER TO FILE NRI_Non-technical Project Proposal Description_ 2013_Pienitz (translation into Inuktitut is underway!)

SECTION 5: MATERIAL USE

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

Equipment type and number	Size - dimensions	Proposed use
Fixed wing Aircraft	Twin Otter	Ferry team and gear in
		from Iqaluit
Helicopter	Bell 206L	Complete water sample survey
		of Nettilling Lake and sample
		small lakes in catchment
Sediment corer	Length = 1 m; diameter = 9 cm	Retrieve short sediment cores
Inflatable zodiac with paddles	Length = 2m	Travel on small lakes and in
		nearshore areas of Nettilling
		Lake to take lake water and
		sediment 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			
Gasoline	5 gal	20 Litres	Plastic gas can
Aviation fuel	10 x 65 gal	10 x 200 Litres	Drum of Jet B Fuel cached at CWS Nikko Island camp by PCSP
Propane	20 lbs		Propane tank
Other			
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
< 200	Manually scooped	Nettilling Lake

4. Have you applied for a Class A License 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)	10 kg	Incinerated	Brought back and disposed of in Iqaluit
Greywater			
Combustible wastes	15 kg	Incinerated	Brought back and disposed of in Iqaluit
Non-Combustible wastes	2 kg	Cleaned and crushed	Brought back and disposed of in Iqaluit
Overburden (organic soil, waste material, tailings)	None		
Hazardous waste	None		
Other:			

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

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

□ NO

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

Community	Name	Organization	Date Contacted
Iqaluit	Mosha Coté	NRI	While on visit in Iqaluit

2. How will the proposed project benefit Nunavut?

X YES

The long-term observations (time-series) of limnological and paleolimnological changes generated through this initiative will enable us to closely track the response of Nettilling Lake aquatic biota and its physical and chemical characteristics to shifts in environmental conditions, such as changes in climate and trophic loading. In addition, the maintenance and retrieval of basic weather data from the meteorological station at CWS camp on Nikko Island (maintained by Centre d'Études Nordiques) allows for the long-term monitoring of climate variability and trends in an extremely remote part of Nunavut, thereby allowing for climate impact assessments.

This project-specific monitoring effort in the Nettilling Lake area will be complementary to those conducted for other regions of the Canadian North by colleagues at other institutions (e.g., J. Smol-Queen's U; M. Douglas- UAlberta; W. Vincent- ULaval; D. Muir- Env. Can.), and therefore offers the potential to be merged into larger databases that will be used for climate calibrations and made available to others.

This project has contributed and will continue to contribute to long-term monitoring efforts of ArcticNet and other northern research initiatives (AMAP-SWIPA) and to the Polar Database (Polar Data Catalogue). This data serves as background and reference for long-term monitoring environmental assessments against which the impacts of forthcoming environmental and climatic changes can be assessed.

This information will be made available to environmental management and protection agencies (NRI, Nunavut Impact Review Board (NIRB), Nunavut Water Board (NWB), Environment and Parks Canada) and policy makers throughout the ArcticNet compendium and Integrated Regional Impact Studies (IRIS) 2 and 3 (Hudson Bay and Eastern Arctic).

To assure the continued success of the long-term lake monitoring activities and fieldwork, local Inuit community representatives will be involved and trained (as well as several of my graduate students) in all aspects of the research program, including the water column profiling and sampling (data logger and sediment trap recovery) procedures. Since its initiation in July 2004, our research activities were greeted with great interest, enthusiasm and support by the residents from the local Inuit communities who have been regularly involved in our field operations as guides and assistants in the Foxe Basin region.

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

For 2013, our team will stay four nights at the Frobisher Inn in Iqaluit and four nights at the CWS Nikko Island camp. Due to the extreme remoteness of this site (distance between CWS camp and Pangnirtung and Iqaluit approx. 300 km and 350 km, respectively), community support will be neither available nor requested for this part of our research.

5. Is there a traditional knowledge component to this research project? If yes, please explain: Within our research project, we will pursue our attempts at gathering and integrating traditional knowledge of the region, in particular via elders and members of Iqaluit and/or Pangnirtung. If possible and as done before, we will be available to present our project to local community representatives through talks and discussions at Environment Canada and/or NRI offices while on stay in Iqaluit, and we will be delighted to learn from the elders' and community members' knowledge of the landscape accessibility, water quality, ice cover on Nettilling Lake, and any obvious changes in the weather/precipitation regime observed over the last decades.

SECTION	ON 8: GENERAL QUES	TIONS
☐ Do you give NRI permission to p Annual Compendium of Researc X YES		in the Nunavut Research Institute
3. In addition to the application form an electronic format to the Manager following have been submitted to N	, Research Liaison, cfilion@	
Project Summary -in English and NTS Maps of the project PLEASE		
Applicant:		
Rinsard Pieuste	Professor	28 February 2013
Signature	Title	Date Date