# 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.	Project Title	Hydrocarbon Potential of Ellet	f Ring	nes Islar	nd				
1b.	Project Number								
rela	ted to this project p	cant has submitted any previous proposal? the previous NRI licence number:		ation(s) to	NRI	Yes		No	X
rela	ted to this project p			. ,		Yes	x	No	
If ye	es, please indicate	the previous NIRB project numbe	er(s): _	NIRB 09	YN056				
2.	Keith Dewing Geological Surve	name and mailing address:  by of Canada , Calgary, AB T2L 2A7		Phone: Fax: Email:	kdewir	403-29	92-7135 92-4961 an.gc.ca		<u> </u>
3.		r's name and mailing address:							
	Steve Grasby			Phone:			92-7111		
	Geological Surve	y of Canada , Calgary, AB T2L 2A7		Fax: Email:	sgrasb		92-4961 an.gc.ca		_
4.	affiliation) Steve Gordey, R Vancouver Ashton Embry, R Calgary	esearch Scientist, GSC-esearch Scientist, GSC-search Scientist, GSC-Calgary	Ca Jei Ca 3 s Ca Wi	lgary nnifer Ga Igary	lloway R ssistants ager Dou nitor, to b	esearch , to be de g Stearn e detern	nined	GSC-	
					_				_

## **SECTION 2: AUTHORIZATION NEEDED**

1. Indicate all authorizations associated with the project proposal:

Regional Inuit Association (RIA Nunavut Water Board (NWB) Nunavut Planning Commission Department of Indian And North (DIAND) Department of Fisheries and Occommunity Government & Sen Nunavut Research Institute (NF Department of Culture, Langua and Youth (CLEY/GN)  List the active permits, licent expiry date:	(NPC) nern Development ceans (DFO) vices (CG&S) RI/GN) ge, Elders,	ts rela	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):
INAC Land Use Permit (c week (INAC LUP #: N200 Nunavut Water Board (ap CLEY Paleontology Perm Approval from Nunavut I	9N0010). pplication submitte nit (application sub mpact Review Boa	d). mitte rd (09	9YN056)
3. Have you applied for all auth X YES	iorizations required	a to c	onduct the project proposal activities? ☐ NO
1. Indicate the activities related to			SAL DESCRIPTION
Temporary camp (to be removed a season)  Permanent camp (to remain for life Construction of recreational or Temporary fuel storage (to be rer field season)  Permanent fuel storage (to be rer field season)  Permanent fuel storage (to remain for life of authorization)  Placement of structures for life than camp or cabin – i.e. scientific instructures are placement of permanent structures. Air surveys (i.e. geophysical, wildlife than surveys (i.e	of authorization) safety cabin moved at end of  of permit (other uments) ures (other than nts) hicle for o project icles via sump sposal	x	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:
Total No. of 23 personnel on site = (A)	Total No. of days on-site = (B)	30	Total No. of Person days (A) × (B) =690

Period of operation:	<b>25 June, 2010</b> to		6 August, 2010
Proposed term of authorization:	1 June 2010	to	30 September, 2011
Please outline the phases of the timing and scheduling of each	ne proposed project (construction/	operation/ dec	commissioning) including the
Camp Mobilization	25 June – 30 June, 2010		
Field work 30 June - 02 Augu	ıst 2010		
Camp demobilization and stor	age 03-06 August		
Camp mobilization 25-30 June	2011		
Field work 30 June - 02 Augu	ıst 2011		
Decommission site and remov	al of all materials 03-06 Augus	t, 2011	
_	_		_

## 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
Ellef Ringnes Island	North Baffin	77° 46' N to 79° 20' N 98° 55' W to 105° 40' W	69F, 69E, 69G, 79H, 79E, 69D13, 69C16	Crown
·				

If the project proposal in	ncludes a <b>camp</b> , pleas	se provide the coordinates	s of the camp location
Lat (degree/minute)	78°12.879'N	Long (degree/minute)	101°03.255'W
NTS Map Sheet # (if dit	ferent from above)	069F	

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

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- 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 – dimensions	Proposed use
Bell 206L Helicopter	Rotor Span ~ 37 feet	To position field crews
	Length ~ 33 feet	
Twin Otter (on Tundra tires)	Wing span ~ 65 feet	For transportation to and from camp
	Length ~ 52 feet	

#### 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	4 x 45 gal. drums	820 L	Diesel fuel will be stored in secondary containment (berms) with spill kits and a contingency plan on hand.
Gasoline	N/A	N/A	N/A
Aviation fuel	120 x 45 gal. drum	24600 L	Aviation fuel will be contained in a secondary containment (berms) and spill kits and a contingency plan on hand.
Propane	10 x 20lb tank	200lbs	Stored in well ventilated area with berms and a fire extinguisher.
Other			
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	

amount ated - 5 weeks - 5 weeks kg	Nunavut Wa  AND TRE  Method of  Latr Sur Incine		
amount ated 5 weeks 5 weeks kg	Method of  Latr Sur Incine	FATMENT No.	METHODS  Additional treatment procedures
amount ated - 5 weeks - 5 weeks kg	Method of Latr Sur Incine	f Disposal rine imp	METHODS  Additional treatment procedures
amount ated - 5 weeks - 5 weeks kg	Method of Latr Sur Incine	f Disposal rine imp ierate	Additional treatment procedures
ated - 5 weeks - 5 weeks - kg	Latr Sur Incine	rine Imp ierate	procedures
ated - 5 weeks - 5 weeks - kg	Latr Sur Incine	rine Imp ierate	procedures
kg kg	Sur Incine	imp nerate	Incinerate
kg kg	Incine	erate	
kg			
	Fly	out	
e waste, rem			
	oving all so	olid waste, an	nd removing the ash
Y INVOLV	FMFNT &	REGIONA	I RENEFITS
ne	Organ	nization	Date Contacted
	that have be  e  fit Nunavut?	e Organ  fit Nunavut? hydrocarbon potential of	

NTS Maps of the project Applicant:		
	nglish and Inuktitut (+Inuinnaqtun, if in t	he Kitikmeot)
	e Manager, Research Liaison, cfi	red to submit additional information in lion@nac.nu.ca. Please check that the
X NO		
□ YES		
2. Is the proposed res	earch associated with Inte	rnational Polar Year (IPY)?
X YES	□ <b>N</b>	iO
•	of Research Undertaken in Nuna	
1. Do you give NRI perm	ission to publish project informa	tion in the Nunavut Research Institute
	SECTION 8: GENERAL Q	UESTIONS
There is no traditional kno	wledge component affiliated wit	h this research project.
		arch project? If yes, please explain:
and 475 km northwest of Gr Ringnes Island. Ellef Ringe	ise Fiord. The proposed project ac s is a desolate island with no comr at Isachsen. Similarly, the island do	avut. It is 450 km north of Resolute Bay ctivities are to update the geology of Ellef nunities occurring on the island and only a bes not have any national parks, wildlife