Effective June 16, 2006



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kNK5 wmoEp5 vtmpq NUNAVUT IMALIFIYIN KATIMAYINGI NUIVAVUT WATER BOARD OFFICE DESIGNAY DU NUNAVUIT

## WATER LICENCE **APPLICATION FORM**

Application f	or: (check one)							
⊠ New	Renewal	Amendme	ent 🔲 Assign	ment	Cancellation			
1. NAME	AND MAILING ADDR		ADDRESS CANADA (	OF CORP	ORATE OFFICE IN			
	ography y 7 <u>L 3N6</u> 000 x78720 122 freniere@queensu.ca	Fa e-r	one: x: nail:	Publ	avut Water Board ic Registry			
<ul> <li>LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</li> <li>Location: Drake Point, Melville Island</li> <li>Latitude: (76°24° "N) Longitude: (108°34° "W)</li> <li>NTS Map Sheet No. 79B/08 Scale: 1:50 000 Sabine Peninsula</li> </ul>								
This research is intended to develop an understanding of the hydrologic and landscape controls on permafrost disturbance. Work involves access to, crossing and sampling of streams. Field research camp composed of temporary tents and up to four people at a given time. Water for camp needs will be collected manually from streams in 20L containers. Three rivers will be instrumented with electronic sensors to measure flow, level, temperature, and turbidity during the summer. Water samples (1L) will be collected manually at approximately 100 sites and used for analysis. All river stations require temporary structures that are located on existing banks. Sampling does not change the flow or discharge hazardous materials.								
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")    Industrial								

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Hydrological research, involving measurement of river discharge, sediment transport, and water chemistry.

See Schedule II of Northwest Territories Waters Regulations for Description of Undertakings

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6.	WATER USE	14.	,							
0.	<u> </u>		<b>—</b>							
l	To obtain water		Flood control							
	To cross a watercourse  To divert a watercourse  To alter the flow of, or store, water									
ŀ	_		To alter the flow of, or store, water							
	Other (describe): Sampling water for scientific purposes (dissolved and suspended sediment)									
7,	QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)									
w	Water use ☐ 100m³/day or less ☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)									
W	Water returned to source  0 in 3/day									
			<u></u>							
8.	WASTE (for each type of waste treatment and disposal, etc.)	lescribe: composition	on, quantity (cubic metres per day), methods of							
	■ Sewage	☐ Waste	A11							
	Solid Waste	☐ Waste								
	Hazardous	Sludge								
l	Bulky Items/Scrap Metal	Other	r describe):<10 l/day greywater disposed in a shallow							
I	pit > 100 m from surface water. 5	olid sewage waste d	disposed in shallow pit >100 m from surface water by							
I	individual camp members.									
9.	OTHER PERSONS OR PROP address and location; attach if nec	ERTIES AFFECTE essary)	TED BY THIS UNDERTAKING (give name, mailing							
_										
Resolu	ite and other responsible agencies	, including all fundi	ned by NRI, NIRB, the community and HTO in ding agencies, for environmental and/or socio-							
econor	mic impacts. This screening has r	ot raised any issues	s or concerns to date.							
	Land Use Permit									
	DIAND	☐ Yes	If no, date expected							
	Regional Inuit Association	☐ Yes 🛛 No	If no, date expected							
	Commissioner	Yes No	If no, date expected							
10.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)									
Work generates minimal impacts to surface waters. Our research requires exceptional care to prevent contamination or pollution in the surface waters, and we adhere to minimal disruption of waters, channel banks and shorelines.										
	NIRB Screening	⊠ No If no, dat	ate expected March 2010							

11.	INUIT WATER RIGH	TS						
	Will the project or activity substantially affect the quality, quantity, or flow of water flowing through lnuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?							
	No							
	If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?							
	No							
12.	CONTRACTORS AND	SUB-CONTRACTORS (na	ıme, address	and functions)				
None								
13.	STUDIES UNDERTAK	EN TO DATE (list and attac	h copies of	studies, reports, resea	arch, etc.)			
We have produced a number of scientific publications, student research reports and theses, and related documents about the hydrological environment at at nearby study site, Cape Bonnty. We are able to provide these on request, and would be willing to meet with the Board to provide an overview of our work planned in the Drake Point area.								
14.	THE FOLLOWING DO REGULATORY PROCE	CUMENTS <u>MUST</u> BE INC ESS TO BEGIN	CLUDED W	ITH THE APPLIC	ATION FOR THE			
Supplem	entary Questionnaire (whe	re applicable; see section 5)	Yes	☐ No If no, date o	expected			
inuktitut	and/or Inuinnaqtun/Englis	h Summary of Project	⊠ Yes	☐ No If no, date of	expected			
Applicat	ion fee of \$30.00 (Payee R	eceiver General for Canada)	⊠ Yes	☐ No If no, date of	expected			
Water U	se fee of \$30.00 (unless of for Canada)	nerwise indicated in Section	9 of the <i>NW</i>	l' Waters Regulations	s; Payee Receiver			
General	for Canaga)		Yes	□ No If no, date	expected			
15.	PROPOSED TIME SCH	EDULE (unless otherwise in	ndicated, the	NWB will consider	the application for			
	a five (5) year term)	one year or less (or)	⊠ Multi	Year				
Start Date: 2010 Completion Date: 2013, potentially longer								
	a Lafreniere me (Print)	Assistant Professor Title (Print)		grature	February 4, 2010 Date			
	vut Water Board office use ATION FEE Amo	only unt: \$Pay JD No						
WATER USE DEPOSIT Amount: \$ Pay ID No.:								