

September 3, 2008

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Indian and Northern Affairs Canada
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Leslic Payette Nunavut Impact Review Board P.O. Box 1360 Cambridge Bay, NU FAX (867) 983-2574

Phyllis Beaulieu Nunavut Water Board P.O. Box 119 Gjoa Haven, NU FAX (867) 360-6369

Jennifer Wilman Manager, Research Liaison Nunavut Research Institute P.O. Box 1720 Iqaluit, Nunavut XOA 0H0 Fax # (867) 979-7109

Dear Mr. Holwell, Ms. Payette, Ms. Beaulieu, Ms. Wilman,

## Re: NWB 3BC-DIC Devon Icecap Project - University of Alberta

The NPC has completed its review of the above noted project proposal. It conforms to the North Baffin Regional Land Use Plan (NBRLUP), subject to the attached.

By this letter and additional enclosures, the NPC is forwarding the project proposal with this determination to NIRB for screening.

The applicant has undertaken to comply with the attached requirements. The authorizing agencies to which this letter is addressed are responsible under the *Nunavut Land Claims Agreement* to implement any of the attached requirements by incorporating the requirements directly, or otherwise ensuring that they must be met, in the terms and conditions of any authorizations issued.

My office would be pleased to discuss with these agencies how best to implement these requirements and to review any draft authorizations that the agencies wish to provide for that purpose.

And, this conformity determination applies only to the above noted applications as submitted. Therefore, the proponent must ensure other applications for a permit under this project proposal not listed above are forwarded to NPC for a conformity determination against the NBRLUP, and notify the NPC immediately if any material to the project proposal is changed before authorizations are issued.

Yours truly,

Bobby Suluk

Regional Planning Co-ordinator, NPC

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Cc: Derek Muir, Environment Canada

Effective June 16, 2006



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#### WATER LICENCE APPLICATION FORM

Application for: (check one)	
Now Op . —	ndment
(for NWB use only)	
1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)
<u>Derck Muir</u> Phone: 905-319-6921  Fax: 905-336-6340  c-mail: derck.muir@ec.ge.cu	Environment Canada, Aquatic Ecosystem Protection Research Division, 867 Lakeshore Road, Burlington ON L7R4A6  Phone: 905-319-6921 Fax: 905-336-6340
<ol> <li>LOCATION OF UNDERTAKING (describe and components of the Undertaking)</li> </ol>	I attach a topographical map, indicating the main
Devon ice cap snow sampling Latitude: (75°20'46" N)  NTS Map Sheet No. 48H, Scale:  4. DESCRIPTION OF UNDERTAKING (attach plant)	
entering the environment of Nunavut, and we snow samples from the ice caps on Devon I on Cornwallis Island  Snow collection: In early May 2008, a 2 person team will go to the December Resolute. A single camp (2 tents) will be established method will be dug about 1 km from the camp and snownobile with 1 sled, returning to camp daily. Fit good weather. The snow will be collected in 4L plas All garbage and waste will be carried out. Sediment collection  The second phase of the study will be to collect sedimant collection. The show hill be joined by a locally hired person from Resolutional I hole (25 cm diameter) using an ice auger over leep points are from previous surveys and its 11.	h of these new chemical contaminants are where they may be coming from by collecting Island and sediment from the bottom of lakes.  Devon ice caps by Twin Otter plane (PCSP) from d on the ice cap for about 5 days. A snow pit (5 -6 travel to the collection site will be via feld work will take approximately 3 days assuming stic bottles. The team will then return to Resolute.  ment cores from the deepest point in 3 lakes near u (Nine mile) and Amituk. Our two person team te Bay. Samples will be collected by cutting a the deep point in the lake. We know where the
fiameter and 30 cm long) will be collected and return this sediment will be placed in small bottles. The sec	ned to PCSP lab for slicing into 0.5 cm intervals. diment coring will take about 5 days. Transport

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TYPE OF PRIMARY UNDERTAKING (A supplement application for undertakings listed in "bold")	dary questionnaire must be submitted with the
☐ Industrial ☐ Mining and Milling(includes exploration/driffing) ☐ Municipal (includes camps/lodges) ☐ Power	Agricultural Conservation Recreational Recreational Miscellaneous (describe below); snow from the Devon ice cap and maintenance of a person camp on the ice cap for 5 to 7 days which will afflize a small amount of melted snow for cooking. Grey water and urine will be collected a plastic bottle and shipped out along with solid waste.

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6.	WATER USE			
	☐ To obtain water ☐ To cross a watercourse ☐ To modify the bed or bar	ik of a wate	rcourse	☐ Flood control ☐ To divert a watercourse ☐ To alter the flow of , or store, water
	☑ Other (describe): To colle past inputs of contaminants a	cet about 40 nd use of w	00 kg of sno ater for co	ow from the Devon ice cap from a snow pit in order to trac oking in a two person camp on the ice cap for 5 to 7 days.
7.	QUANTIFY OF WATER I quality to be returned to source	NVOLVEI :e)	) (cubic m	etres per day including both quantity to be used and
	Water use ⊠ 100m <sup>3</sup> /day or less ☐ Greater than 100m drilling, etc.)	s n <sup>3</sup> /day; if <u>g</u>	reater, indi	cate quantities to be used for each purpose (camp.
	Water returned to source none m <sup>2</sup> /day			
8.	WASTE (for each type of was treatment and disposal, etc.)	te describe:	vompositi	on, quantity (cubic metres per day), methods of
-		PERTIFC	in Resolute	r describe): grey water from cooking/cleaning and
	Land Use Permit DIAND	☐ Yes	□No	If no, date expected
	Regional Inuit Association	Yes		If no, date expected
	Commissioner	Yes	□ No	If no, date expected
<del>-</del>	NAME OF THE PROPERTY OF THE PR	FAL IMPAirect, indire	es, emnara	UNDERTAKING AND PROPOSED tive impacts, etc.)
	INUIT WATER RIGHTS			CHAIN CHARGE IGNICM
	Will the project or activity substan	tially affect ift under Ar	the quality ticle 20 of	y, quantity, or flow of water flowing through Inuit the Nanavut Land Claims Agreement?
				<b>!</b>
	If yes, has the applicant entered int	o an agreen	nent with th	be Designated Inuit organization to pay

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compensation for any loss or damage that may be car has been made, how will compensation be determined	ised by the alteration. If no compensation agreement
Not applicable	<del>.</del> .
12. CONTRACTORS AND SUB-CONTRACTORS (in Project team for 2008 Dan Walsh (team leader) phone 905-336-4403 Environment Canada Burlington ON L7R 4A6 dan.walsh@ee.gc.ca Torsten Meyer (PhD student), University of Toronte Paul Drevnick (Post doc), Wood's Hole Oceanographic Institute. Peter Anagualik, Local hunter/guide. Resolute Bay NU (lake s  13. STUDIES UNDERTAKEN TO DATE (list and attac We have previously undertaken the same study at this site in Contaminants program for the 2006 study is attached	, Woods Hole MA (lake sediments only) ediments only) h copies of studies, reports, research, etc.)
4. THE FOLLOWING DOCUMENTS MUST BE INC REGULATORY PROCESS TO BEGIN	LUDED WITH THE APPLICATION FOR THE
upplementary Questionnaire (where applicable; see section 5)	
niktitut and/or Intiinnaqtun/English Summary of Project	∑ Yes
pplication fee of \$30.00 (Payce Receiver General for Canada)	Yes No If no, date expected
ater Use fee of \$30.00 (unless otherwise indicated in Section 9 meral for Canada)	of the NWT Waters Regulations; Payco Receiver
	Yes No if no, date expected
<ul> <li>PROPOSED TIME SCHEDULE (unless otherwise ind a five (5) year term)</li> <li>one year or ess (or)</li> </ul>	
Start Date: May 1, 2008Comp.	letion Date: Aug <u> 31 2010</u>
Derek Muir Research Scientist Name (Print) Title (Print)	April 25, 2008 Signature Date
Nunavut Water Board office use only	
PLICATION FEE Amount: S Pay 1D No.:	······································
TER USE DEPOSIT Amount: \$ Pay ID No.:	

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# Application # NWB 3BC-DIC Devon Ice Cap Project - Environment Canada

#### NUNAVUT PLANNING COMMISSION APPLICATION TO DETERMINE CONFORMITY WITH THE NORTH BAFFIN REGIONAL LAND USE PLAN

All applicants for a project proposal shall comply with the requirements listed below. The relevant sections of the plan are noted in each requirement.

GENERAL	
Environmental Protection: s3.3.11 to prevent any new occurrences contamination at the site of the developmental protection: s3.3.11 to prevent any new occurrences.	1.8: The applicant undertakes of pollution, garbage and lopment.
Yes	No
<ol> <li>Removal of Fuel Drums: s3.3.11.8 to remove all drums safely from the drums in a safe manner.</li> </ol>	3: The applicant undertakes ite site and dispose of the
(Yes	No
4. New Site Restoration and Clean U.C., s1: The applicant undertakes to ck the site to its natural condition to the g	p: s3.3.11.1 and Appendix een up the site and restore reatest extent possible.
(Yes)	No
5. Low-Level Air Flights: Appendix C, s all low-level flights?	:3: Will the applicant avoid
Yes	No
<ul> <li>i. If not, explain why suc absolutely necessary.</li> </ul>	h flights are or may be
A STATE OF THE STA	
Di constanting a	
And the second of the second o	

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	ii.	If such fligh will they avo	ts are or may old disturbance	are or may be absolutely necessary, disturbance to people and wildlife?		
		Yes		No		
•			e and an annual section of the secti			
- -	100000	And Section Control of		W/ rww.		
	iû.	If not, explai disturbance.	n why it is no	possible to avoid such		
**************************************						
			Wanter Committee			
******		and an option of the State State S	The state of the s	and the second s		
HERITA	AGE R	RESOURCES				
all sus	spected	of Archaeological filt the applicant archaeological ders and Youth	l situs to the f	8.9.3 and Appendix C, report the discovery of repartment of Culture,		
(Yes)			140			
11. Negat minimi	ive Ef	fects: s3.3.4.6 negative effects	of its activity of	pplicant planned to on the environment?		
		Yes	Í	No		

Include with the application the mitigative measures developed.

12. Carving Stone Deposits: Appendix C, s9. Will the applicant report any discoveries of carving stone deposits to the Qikiqlani Inuit Association?



No

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### SCIENTIFIC RESEARCH

17. Scientific Research: \$3.3.7.3: involve scientific research?	Does the project proposal
Yes	No
If yes, will the applicant integrate a and traditional knowledge when cor	Il available and relevant local nducting its research?
(Yes)	No
18. Consultation with Nunavut Research the applicant consulted with the labout research topics that would residents?  Yes  i. Describe the results of your	benefit or interest local
See telan	consultation.
ii. If no, explain why.	
Tobbuild a No Done of the Shed were consulted	odtorde a communitus
on trus question o	flocal where +
19. Local Services and Local Employ applicant rely on local services a	ment: s3.3.7.4: Will the

No Describe the services retained and the people to be employed.

applicant rely on local services and employment where

thing local student on hunder when possible.

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	ii. If no, explain why it is i	not possible.	
20. Con	munication on Scientifia F	Research: s3.2.8 and s3.3.7.5;	
into Jangi scier	Inuktitut and communica	(escarch: s3.2.8 and s3.3.7.5; cansials a summary of its work te with communities using -technical. The results of all de available to the affected	
Yes	No		
22. Code applicant times.	of Good Conduct for Land undertakes to adhere to the	Users: Appendix C: The code of Good Conduct at all	

Much \_\_\_ (name of applicant), certify that the information have given in this application is true and correct and hereby make the above undertakings which form part of my application for a project proposal within the meaning

No

\_\_Signature of Applicant:

Yes