

General Water Licence Application (Application for a new Water Licence)

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DOCUMENT MANAGEMENT

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DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document	June 2010
	from NWB Guide 4	
(2)	Updated NWB logos and reformatted table to allow rows	May 2011
	to break across page	
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119 GJOA HAVEN, NU XOB 1J0 Tel: (867) 360-6338 FAX: (867) 360-6369 NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
OFFICE DES EAUX DU NUNAVUT

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: <u>Guide to Completing and Submitting a Water Licence Application for a New Licence</u> for more information about this application form.

LICENCE NO: (for NWB use only)					
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)				
Dr. Gordon Osinski,					
Western University, Department of Earth Sciences,					
1151 Richmond Street,					
London, ON, N6A 5B7	Phone:				
Phone: (519) 661-4208	Fax: e-mail:				
Fax: (519) 661-3198	(Attach authorization letter.)				
e-mail: gosinski@uwo.ca					
3. NAME OF PROJECT (including the name of the	e project location)				
The Haughton Impact Structure, Devon Island, Nunavut: effects.	Geological, biological and environmental				
4. LOCATION OF UNDERTAKING					
Project Extents					
	de: (90° 4' 51.88" W)				
	de: (89° 14' 30.97" W) de: (89° 16' 45.80" W)				
	de: (90° 4' 30.58" W)				
Camp Location(s)					
Latitude: (75° 22' 18.30" N) Longitude: (89° 32'	6.10" W)				
5. MAP - Attach a topographical map, indicating th	e main components of the undertaking.				
NTS Map Sheet No.: 58H07 Map Name: Haughton	Dome Map Scale: 1:50 000				

6.	NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).						
	Sub-surface						
	☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI) Date (expected date) of issuance: Date of expiry:						
	☐ Mineral Lease from Indian and Date (expected date) of issuance		Canada (INAC) Date of expiry:				
	Surface						
	Crown Land Use Authorization Date (expected date) of issuance						
	☐ Inuit Owned Land (IOL) Autho Date (expected date) of issuance		neot Inuit Association (KIA) Date of expiry:				
	☐ IOL Authorization from Kivalliq Date (expected date) of issuance		KivIA) Date of expiry:				
	★ IOL Authorization from Qikiqta Date (expected date) of issuance		n (QIA) Date of expiry: 10/8/13				
	Commissioner's Land Use Authorization Date (expected date) of issuance: Date of expiry:						
Nama	➤ Other: Scientific Research Per Date (expected date) of issuance		, ,				
	of entity(s) holding authorizations:						
7.	NUNAVUT PLANNING COMMIS	SSION (NPC) DETE	ERMINATION				
	Indicate the land use planning are	ea in which the pro	ject is located.				
	XNorth Baffin ☐ South Baffin ☐ Akunniq	☐ Keewati ☐ Sanikilu: ☐ West Kit	aq				
	Is a land use plan conformity dete	ermination required	! ?				
	× Yes [□No					
	If Yes, indicate date issued and a If No, provide written confirmation is not required.		ted May 2013 ning that a land use plan conformity review				

8.	NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION					
	Is an Article 12 Part 4 screening determination required?					
	x Yes					
	If Yes, indicate date issued and attach copy <u>expected</u> If No, provide written confirmation from NIRB confirming required.					
9.	DESCRIPTION OF UNDERTAKING – List and attach	plans and drawings or project proposal.				
See at	ttached project description and map.					
10.	OPTIONS – Provide a brief explanation of the alternat considered to carry out the project.	ive methods or locations that were				
	aughton Impact Structure is a unique scientific site, there is project.	efore no other locations were considered				
11.	CLASSIFICATION OF PRIMARY UNDERTAKING - I undertaking by checking one of the following boxes.	ndicate the primary classification of				
	☐ Industrial ☐ Mining and Milling (includes exploration/drilling/exp ☐ Conservation	Agricultural loration camps)				
	✗ Municipal (includes camps/lodges)☐ Power	☐ Recreational☐ Miscellaneous (describe below):				
	See Schedule II of Northwest Territories Waters Regula	ations for Description of Undertakings.				
	Information in accordance with applicable Supplementa submitted with a New Water Licence Application. Indicapplication.					
	 Hydrostatic Testing Tannery Tourist / Remote Camp Landfarm & On-Site Storage of Hydrocarbon Conta Onshore Oil and Gas Exploration Drilling Mineral Exploration / Remote Camp Advanced Exploration Mine Development X Municipal General Water Works Power 	aminated Soil				
12.	WATER USE - Check the appropriate box(s) to indica applied for.	te the type(s) of water use(s) being				
	☐ To cross a watercourse ☐ To	o divert a watercourse o modify the bed or bank of a watercourse ood control				

_	12 OLIANTITY A	ND OHALITY OF W	ATER INVOLVED. F		van indinatad in				
1	Block 12, pro the estimated	QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.							
		Name of water source(s) (show location(s) on map): The Haughton River (see map for location)							
		Describe the quality of the water source(s) and the available capacity: Water at this source is fresh and should require only filtration for consumption.							
	Provide the ov	erall estimated quanti	ity of water to be used	: 0.1 m³/day					
			water to be used from laughton River. Appro		used in total.				
	Approximately		be used for each purp sed for domestic purp sed for drilling.						
			: Camp water will be o						
	Estimated qua	intity(s) of water return	ned to source(s) 0.05	m³/day					
			rned to source(s): Wa ean water returned to t		ll be decanted,				
1	WASTE – Ch deposited.	eck the appropriate b	ox(s) to indicate the ty	rpes of waste(s) gene	rated and				
	X Sewage								
1	15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.								
	Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method				
Sewage		Human waste	12 kg/day	Combustible material will be incinerated in a can.	Transport all remaining waste to PCSP for disposal.				
Solid Waste Garbage, food waste, etc. 4 kg/day all combustible combus garbage in a garbage					Transport all non-combustible garbage to PCSP for				

				disposal.
Greywater	Dishwater, cooking, etc.	10 L/day		Greywater will be disposed of in a sump.
Greywater	Water used for drilling	1 m ³ total	Water will be decanted.	Once decanted, the water will be returned to the river.

16. OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: Scientific Research Permit

Administering Agency: Nunavut Research Institute

Project Activity: Scientific Research

Date (expected date) of issuance: expected April 2012 Date of expiry: August 10, 2012

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.

No environmental impacts are envisaged due to this research. Everything possible will be done to ensure this is the case. Much of the research will be on foot with minimal disturbance to the local environment. All waste will either be flown out or burned on site in a safe, clean manner. Water used for drilling will be collected, decanted and reused in order to minimize the amount of water necessary.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

Devon Island is uninhabited so there will be no adverse effects due to this project.

19. INUIT WATER RIGHTS

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

N/A

20.	CONSULTATION – Provide a summary of a were held, where and with whom. Include a concerns.		
N/A	concerns.		
21.	SECURITY INFORMATION		
	Provide an estimate of the total financial secreclamation liability for land and water combit the undertaking. Estimates of reclamation correclamation work done by a third party continclude contingency factors appropriate to the	ned sufficient to cover the highen osts must be based on the cost ractor if the operator defaults.	est liability over the life of of having the necessary. The estimate must also
	Where applicable, the financial security asse the principals respecting mine site reclar Reclamation Policy for Nunavut, Indian and N	mation and implementation for	
N/A			
22.	FINANCIAL INFORMATION		
	Provide a statement of financial responsibility	<i>1</i> .	
	If the applicant is a business entity, provide a	list of the officers of the compa	ıny.
	If the applicant is a business entity attach a cregistration of the company name.	opy of the Certificate of Incorpo	ration or evidence of
N/A			
23.	STUDIES UNDERTAKEN TO DATE - List a	and attach copies of studies, rep	oorts, research, etc.
N/A			
24.	PROPOSED TIME SCHEDULE – Indicate the applicable phase of development (construction)		
	Construction Proposed Stort Date:	Proposed Completion Date:	
	Proposed Start Date:(month/year)	_ Proposed Completion Date	(month/year)
	Operation Proposed Start Date: July 2013 (month/year)	Proposed Completion Date: .	July 2013 (month/year)
	Closure Proposed Start Date:	Proposed Completion Date: _	
	Proposed Start Date:(month/year) Post - Closure	Proposed Completion Date: _	(month/year)
	Proposed Start Date:(month/year)	Proposed Completion Date: _	In a Chile Chile
	(month/year)		(month/year)

	For each applicable phase of development indicate which season(s) activities occur.						
	Constructio Winter	<u>n</u> ☐ Spring	Summer	Fall	All season		
	Operation Winter	Spring	x Summer	☐ Fall	All season		
	<u>Closure</u> ☐ Winter	Spring	Summer	☐ Fall	All season		
	Post - Closu Winter	<u>ure</u> ☐ Spring	Summer	☐ Fall	All season		
25.	PROPOSEI	D TERM OF	LICENCE				
	Number of	years (maxim	num of 25 year	s): <1 ye	ar		
	Requested	Date of Issua	ance: June 20 (month/y		Requested Expiry	Date: August 201 (month/yea	
licence water I licensir licence respon	and <u>at least</u> o icence applicating land use plate application in a	ne (1) year frontion. These to the transfer or development of the transfer of	om the date of a imeframes are a elopment impact ith any project s	application approximat requireme pecific guic	for a type A water I e and do not accou nts, time for the app lelines issued by the	ate of application for placence, to allow for punt for the time to coolicant to prepare and NWB, or the time for ssing Water Licence	processing of the pumplete any pred submit a water r the applicant to
26.						rm for Annual Repo	
27.	CHECKLIS begin.	T – The follo	owing must be i	included w	vith the application	o for the water licens	sing process to
		firmation fror nave been ac		nfirming th	at NPC's requirem	nents regarding land	d use plan
	Yes		× No	If no,	date expected	April 2013	

	Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.				
Yes	× No	If no, dat	e expected	April 2013	
Completed General V	eral Water Licence Application form.				
x Yes	□No	If no, dat	e expected		
Information addressir	ng Supplemental	Information G	uideline (SIG) ,	where applicabl	e (see Block 11)
Yes	× No	If no, dat	e expected	March 2013	
English Summary of	Application.				
x Yes	□No	If no, dat	e expected		
Inuktitut and/or Inuinr	Inuktitut and/or Inuinnaqtun Summary of Application.				
x Yes	□No	If no, dat	e expected		
Application Fee of \$3	lication Fee of \$30.00 CDN (Payee Receiver General for Canada).				
Yes	× No	If no, dat	e expectedF	ebruary 2013	
Water Use Fee Depo use fee will be calcu accordance with the I	ulated by the NV	VB based upo	n the amount	of water author	
☐ Yes	× No	If no, date	e expected	February 2013_	
28. SIGNATURE					
Gordon Osinski	NSERC/MI Industrial R Chai	lesearch	6.0	ard.	Feb. 28, 2013
Name (Print)	Title (Pr	rint)	Signa	nture	Date