



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

ᓄᓇᓂᓪ ᐃᓕᓕᓪᓐ ᓂᐱᓕᓪᓐ
NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

Effective June 16, 2006

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ New ☐ Renewal ☐ Amendment ☐ Assignment ☐ Cancellation

LICENCE NO:
(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE Keith Dewing, Geological Survey of Canada 3303 33 rd St NW Calgary AB T2L 2A7 Phone: 403-292-7135 Fax: 403-292-4961 E-mail: kdewing@NRCan.gc.ca	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) Phone: Fax: E-mail:								
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) Latitude: (78°13'14" N) Longitude: (101°4'34" W) NTS Map Sheet No. 069F Scale: 250 000									
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) Scientific (Geological) field camp and fuel cache									
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold") <table><tr><td><input type="checkbox"/> Industrial</td><td><input type="checkbox"/> Agricultural</td></tr><tr><td><input type="checkbox"/> Mining and Milling (includes exploration/drilling)</td><td><input type="checkbox"/> Conservation</td></tr><tr><td><input type="checkbox"/> Municipal (includes camps/lodges)</td><td><input type="checkbox"/> Recreational</td></tr><tr><td><input type="checkbox"/> Power</td><td><input checked="" type="checkbox"/> Miscellaneous (describe below):</td></tr></table> Geological mapping of Ellef Ringnes Island as part of the Geological Survey of Canada's northern mapping program. Temporary camp for about 17 people over two summers See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings		<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Mining and Milling (includes exploration/drilling)	<input type="checkbox"/> Conservation	<input type="checkbox"/> Municipal (includes camps/lodges)	<input type="checkbox"/> Recreational	<input type="checkbox"/> Power	<input checked="" type="checkbox"/> Miscellaneous (describe below):
<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural								
<input type="checkbox"/> Mining and Milling (includes exploration/drilling)	<input type="checkbox"/> Conservation								
<input type="checkbox"/> Municipal (includes camps/lodges)	<input type="checkbox"/> Recreational								
<input type="checkbox"/> Power	<input checked="" type="checkbox"/> Miscellaneous (describe below):								

6.	WATER USE	<input checked="" type="checkbox"/> To obtain water <input type="checkbox"/> To cross a watercourse <input type="checkbox"/> To modify the bed or bank of a watercourse <input type="checkbox"/> Other (describe):	<input type="checkbox"/> Flood control <input type="checkbox"/> To divert a watercourse <input type="checkbox"/> To alter the flow of, or store, water																	
7.	QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quantity to be returned to source)	Water use <input checked="" type="checkbox"/> 100m ³ /day or less <input type="checkbox"/> Greater than 100m ³ /day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.) Water returned to source <u>0.5</u> m ³ /day																		
8.	WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Sewage <input checked="" type="checkbox"/> Solid Waste <input type="checkbox"/> Hazardous <input type="checkbox"/> Bulky Items/Scrap Metal </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Waste oil <input checked="" type="checkbox"/> Greywater <input type="checkbox"/> Sludges <input checked="" type="checkbox"/> Other describe): solid, noncombustible waste. </td> </tr> </table> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Type of waste</th> <th style="text-align: left;">Projected amount generated</th> <th style="text-align: left;">Method of Disposal</th> </tr> </thead> <tbody> <tr> <td>Sewage (human waste)</td> <td>2000 L over 5 weeks</td> <td>Latrine and Incinerate</td> </tr> <tr> <td>Greywater</td> <td>2000 L over 5 weeks</td> <td>Sump</td> </tr> <tr> <td>Combustible wastes</td> <td>500 kg</td> <td>Incinerate</td> </tr> <tr> <td>Non-Combustible wastes</td> <td>500 kg</td> <td>Fly out</td> </tr> </tbody> </table>		<input checked="" type="checkbox"/> Sewage <input checked="" type="checkbox"/> Solid Waste <input type="checkbox"/> Hazardous <input type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Waste oil <input checked="" type="checkbox"/> Greywater <input type="checkbox"/> Sludges <input checked="" type="checkbox"/> Other describe): solid, noncombustible waste.	Type of waste	Projected amount generated	Method of Disposal	Sewage (human waste)	2000 L over 5 weeks	Latrine and Incinerate	Greywater	2000 L over 5 weeks	Sump	Combustible wastes	500 kg	Incinerate	Non-Combustible wastes	500 kg	Fly out
<input checked="" type="checkbox"/> Sewage <input checked="" type="checkbox"/> Solid Waste <input type="checkbox"/> Hazardous <input type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Waste oil <input checked="" type="checkbox"/> Greywater <input type="checkbox"/> Sludges <input checked="" type="checkbox"/> Other describe): solid, noncombustible waste.																			
Type of waste	Projected amount generated	Method of Disposal																		
Sewage (human waste)	2000 L over 5 weeks	Latrine and Incinerate																		
Greywater	2000 L over 5 weeks	Sump																		
Combustible wastes	500 kg	Incinerate																		
Non-Combustible wastes	500 kg	Fly out																		
9.	OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Land Use Permit</td> <td style="width: 10%;"><input type="checkbox"/> Yes</td> <td style="width: 10%;"><input checked="" type="checkbox"/> No</td> <td style="width: 50%;">If no, date expected <u>March 31, 2010</u></td> </tr> <tr> <td>DIAND</td> <td><input type="checkbox"/> Yes</td> <td><input checked="" type="checkbox"/> No</td> <td>If no, date expected <u>March 31, 2010</u></td> </tr> <tr> <td>Regional Inuit Association</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td>If no, date expected _____</td> </tr> <tr> <td>Commissioner</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td>If no, date expected _____</td> </tr> </table>		Land Use Permit	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If no, date expected <u>March 31, 2010</u>	DIAND	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If no, date expected <u>March 31, 2010</u>	Regional Inuit Association	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____	Commissioner	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____	
Land Use Permit	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If no, date expected <u>March 31, 2010</u>																	
DIAND	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If no, date expected <u>March 31, 2010</u>																	
Regional Inuit Association	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____																	
Commissioner	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____																	
10.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)	NIRB Screening <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, date expected <u>March 31, 2010</u>																		

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit 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?

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Polar Continental Shelf Project (Resolute Bay). Logistic support
487-615 Booth Street
Ottawa, ON, K1A 0E9
Tel (Resolute Bay) 867-252-3872

Doug Stearn, Cambridge Bay NU. (Camp manager)

Hunters and Trappers Association of Resolute Bay (Wildlife monitor)
PO Box 61
Resolute Bay, NU X0A 0V0
Tél. : (867)-252-3170

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

The purpose of this project is to update our understanding of the geology and hydrocarbon potential of Ellef Ringnes Island. The island was last mapped in 1967. A detailed geological map of the island will be produced. This map will be used to help re-interpret the seismic data that was collected in the 1970s and 1980s.

Field work will be undertaken by 2-4 person crews supported by helicopter. Crews will be set out for the day to traverse, examine outcrops on ridges and in river valleys, and to sample rocks. Rocks are collected by hand, usually 0.5-2 kg in size. These will be sent to Calgary and analyzed for their organic matter. Small samples (50 ml) of water or ice will be taken from creeks and springs to analyse for water quality.

Reports and maps will be produced by the Geological Survey of Canada. These will be distributed to the Minerals and Petroleum Resources Division of the Department of Economic Development and Transportation, Government of Nunavut and to the Canada-Nunavut Geoscience Office. All reports are available for free download on the internet. Results will be discussed at the Yellowknife Geoscience Forum and at future Nunavut Petroleum Workshops (in Iqaluit).

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee of \$30.00 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☒ Yes ☐ No If no, date expected _____

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

Effective June 16, 2006

☐ one year or less (or) ☒ Multi Year

Start Date: June 15, 2010 Completion Date: September 30, 2011

Keith Dewing
Name (Print)

Research Scientist
Title (Print)

Keith Dewing
Signature

December 15, 2009
Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____