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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

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. <u>069F</u> Scale: <u>250 000</u>			
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 style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below): </td> </tr> </table> <p>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</p> <p style="text-align: center;">See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings</p>		<input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below):
<input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below):		

6. WATER USE

- ☒ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of , or store, water
☐ Other (describe):

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

Water use ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source
0.5 m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- ☒ Sewage
 ☐ Waste oil
☒ Solid Waste
 ☒ Greywater
☐ Hazardous
 ☐ Sludges
☐ Bulky Items/Scrap Metal
 ☒ 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)**Land Use Permit**

DIAND ☐ Yes ☒ No If no, date expected March 31, 2010

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.)

NIRB Screening ☐ Yes ☒ No If no, date expected March 31, 2010

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)

☐ 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)

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.: _____