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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)

<p>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</p> <p>David Burgess Canada Center for Remote Sensing Earth Observation and GeoSolutions Division 588 Booth Street Ottawa, Ontario K1A 0Y7</p> <p>Phone: 613-995-5891 Fax: 613-947-1385 e-mail: david.burgess@nrcan.gc.ca</p>	<p>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</p> <p>_____</p> <p>Phone: _____ Fax: _____ e-mail: _____</p>															
<p>3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p>Latitude: (° ' " N) Longitude: (° ' " W) NTS Map Sheet No. _____ Scale: 1:250,000</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Location Name</th> <th style="text-align: left; border-bottom: 1px solid black;">Co-ordinates</th> <th style="text-align: left; border-bottom: 1px solid black;">NTS Map Sheet #</th> </tr> </thead> <tbody> <tr> <td>Agassiz Ice Cap</td> <td>80Deg 49' N; 72Deg 45' W</td> <td>34A</td> </tr> <tr> <td>Meighen Ice Cap</td> <td>79Deg 58' N; 99Deg 09' W</td> <td>69H</td> </tr> <tr> <td>Grise Fiord</td> <td>76Deg 25' N; 82Deg 41' W</td> <td>049A</td> </tr> <tr> <td>Devon Ice Cap</td> <td>75Deg 20' N; 820Deg 7' W</td> <td>048H</td> </tr> </tbody> </table>		Location Name	Co-ordinates	NTS Map Sheet #	Agassiz Ice Cap	80Deg 49' N; 72Deg 45' W	34A	Meighen Ice Cap	79Deg 58' N; 99Deg 09' W	69H	Grise Fiord	76Deg 25' N; 82Deg 41' W	049A	Devon Ice Cap	75Deg 20' N; 820Deg 7' W	048H
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<p>4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)</p> <p>This ongoing project involves site visitation and field measurements of glacier mass balance and snow contaminants sampling on 4 ice caps and 1 glacier in the Canadian high Arctic. The glacier mass balance measurements obtained from this work provide a proxy record of climate change across this region since 1960. The more recent addition of contaminants sampling program has contributed valuable insight into the trends of pollution levels and atmospheric transport pathways from more southerly latitudes.</p>																
<p>5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")</p>																

- ☐ **Industrial**
- ☐ **Mining and Milling**(includes exploration/drilling)
- ☐ **Municipal** (includes camps/lodges)
- ☐ **Power**

- ☐ **Agricultural**
- ☐ **Conservation**
- ☐ **Recreational**
- ☒ **Miscellaneous** (describe below):
*Climate and Pollution Research

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

6.	WATER USE <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> To obtain water <input type="checkbox"/> To cross a watercourse <input type="checkbox"/> To modify the bed or bank of a watercourse </div> <div style="width: 48%;"> <input type="checkbox"/> Flood control <input type="checkbox"/> To divert a watercourse <input type="checkbox"/> To alter the flow of , or store, water </div> </div> <input checked="" type="checkbox"/> Other (describe): Personal use.
7.	QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality 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><0.1</u> m ³ /day
8.	WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.) <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> Sewage <input type="checkbox"/> Solid Waste <input type="checkbox"/> Hazardous <input type="checkbox"/> Bulky Items/Scrap Metal </div> <div style="width: 48%;"> <input type="checkbox"/> Waste oil <input checked="" type="checkbox"/> Greywater <input type="checkbox"/> Sludges <input type="checkbox"/> Other describe): </div> </div> <p>Sewage: Human waste, quantity = <0.001 cubic metres perday, waste will be contained and transported back to Resolute Bay for disposal</p> <p>Greywater: consists of dishwater, quantity = <0.001 cubic metres perday, greywater will be contained and transported back to Resolute Bay for disposal</p>
9.	OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary) <p>None</p> <p>Land Use Permit</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>DIAND</p> <p>Regional Inuit Association</p> <p>Commissioner</p> </div> <div style="width: 30%;"> <div style="display: flex; align-items: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> <div style="display: flex; align-items: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> <div style="display: flex; align-items: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> </div> <div style="width: 35%;"> <p>If no, date expected _____</p> <p>If no, date expected _____</p> <p>If no, date expected _____</p> </div> </div>
10.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.) <p>NIRB Screening <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, date expected <u>April 1, 2009</u></p>

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)

None

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

see PDF file attached

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: April 1, 2009 Completion Date: May 30, 2020

David Burgess

Name (Print)

Physical Scientist

Title (Print)

Signature

January 14, 2009

Date

For Nunavut Water Board office use only

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

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