



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

kNK5 wmoEp5 vtmpq
 NUNAVUT IMALIRIYIN KATIMAYINGI
 NUNAVUT WATER BOARD
 OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ **New** ☐ **Renewal** ☐ **Amendment** ☐ **Assignment** ☐ **Cancellation**

<p>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</p> <p><u>Jaelyn Eberle</u> <u>University of Colorado Museum of Natural History</u> <u>265 UCB</u> <u>University of Colorado</u> <u>Boulder, CO 80309</u></p> <p>Phone: <u>303-492-8069</u> Fax: <u>303-735-2347</u> e-mail: <u>Jaelyn.Eberle@Colorado.edu</u></p>	<p>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</p> <p>_____ Phone: _____ Fax: _____ e-mail: _____</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> Nunavut Water Board Public Registry </div>		
<p>3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p>Site 1 (near Bay Fiord): Lat 78 degrees, 46.704 minutes N; Long 82 degrees, 20.75 minutes W Site 2 (Strathcona Fossil Forest): Lat 78 degrees, 37 minutes N, Long 82 degrees, 50 minutes W</p> <p>Latitude: (78°46'42" N) Longitude: (82°20'45" W) NTS Map Sheet No. <u>SEE ATTACHED</u> Scale: _____</p>			
<p>4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)</p> <p>SEE ATTACHED</p>			
<p>5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")</p> <table style="width: 100%;"> <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): <div style="text-align: center; margin-top: 5px;">RESEARCH (PALEONTOLOGY)</div> </td> </tr> </table> <p style="margin-top: 10px;">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): <div style="text-align: center; margin-top: 5px;">RESEARCH (PALEONTOLOGY)</div>
<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): <div style="text-align: center; margin-top: 5px;">RESEARCH (PALEONTOLOGY)</div>		

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): Drinking water and water used in cooking and cleaning.

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.)

*We estimate that we will use approximately 2m³/day or less.

Water returned to source

NA 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):

Amount of sewage is estimated to be 5 garbage bags, which will be burned and buried. Greywater is estimated to be 20 buckets, which will be drained off in wash water pit, and this pit will then be filled in.

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)

Field sites are on Crown Land; we are under the 100 person day limit and consequently do not require a land use permit from DIAND. Eberle has communicated with DIAND personnel Tracey McCaie via email.

Land Use Permit

DIAND

☒ Yes ☐ No If no, date expected N/A (see note above)

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.)

Our two-week field research project on central Ellesmere Island will make use of two field camps: one site near Bay Fiord, and another at the Strathcona Fiord Fossil Forest (see GPS coordinates in Section 3 above). The Polar Continental Shelf Project (PCSP) will provide helicopter and twin otter support for the research, and PCSP personnel have informed Eberle that no aviation fuel will be stored at these sites. However, the PCSP may bring (by otter) 2 barrels of burn fuel (Jet-B) to be used right away by the helicopter. The empty barrels will be removed by the PCSP. Two 20 lb canisters of propane will be provided by the PCSP, to be used for cooking at the camp sites. No smoking is permitted near the propane tanks. No disposal is required, as it cannot be contained once it has been released. After the fieldwork is completed, the propane tanks, garbage, and camping gear (tents, field equipment, etc.) will be returned to the PCSP facility in Resolute by twin otter.

NIRB Screening ☐ Yes ☐ No If no, date expected _____

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)

N/A

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

Eberle has spent 7 field seasons in the Canadian Arctic (1997-1999; 2001-2004), including on Ellesmere, Axel Heiberg, Devon, and Banks Islands. A reference list of published papers, as well as some reprints of the papers are included with this license application.

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

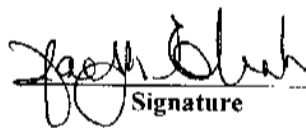
Start Date: July 1, 2010 Completion Date: July 14, 2010

Jaelyn J. Eberle

Name (Print)

Curator and Asst.
Professor

Title (Print)


Signature

November 30, 2009

Date

For Nunavut Water Board office use only

APPLICATION FEE

Amount: \$

Paid/D Name

WARRANT USE DEPOSIT	Amount: \$	Pay ID No.
---------------------	------------	------------