

File No.: 3BC-ACS1313

June 10, 2013

Benoit Beauchamp Department of Geosciences Arctic Institute of North America University of Calgary 2500 University Drive NW Calgary, AB T2N 1N4

Email: <u>bbeaucha@ucalgary.ca</u>

**RE: NWB Licence No. 3BC-ACS1313** 

Dear Mr. Beauchamp,

Please find attached renewal Licence No. **3BC-ACS1313** issued to Benoit Beauchamp by the Nunavut Water Board (NWB) pursuant to its authority under Article 13 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada (Nunavut Land Claims Agreement or NLCA).* The terms and conditions of the attached Licence related to water use and waste disposal are an integral part of this approval.

If the Licensee contemplates the renewal of this Licence, it is the responsibility of the Licensee to apply to the NWB for its renewal. The past performance of the Licensee, new documentation and information, and issues raised during a public hearing, if the NWB is required to hold one, will be used to determine the terms and conditions of the Licence renewal. Note that if the Licence expires before the NWB issues a new one, then water use and waste disposal must cease, or the Licensee may be in contravention of the *Nunavut Land Claims Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*. However, the expiry or cancellation of a licence does not relieve the holder from any obligations imposed by the licence. The NWB recommends that an application for the renewal of this Licence be filed at least three months prior to the Licence expiry date.

If the Licensee contemplates or requires an amendment to this licence, the NWB may decide, in the public interest, to hold a public hearing. The Licensee should submit applications for amendment as soon as possible to give the NWB sufficient time to go through the amendment process. The process and timing may vary depending on the scope of the amendment, however a minimum of <u>sixty (60) days</u> is required from time of acceptance by the NWB. It is the responsibility of the Licensee to ensure that all application materials have been received and are acknowledged by the Manager of Licensing.

The NWB strongly recommends that the Licensee consult the comments received by interested persons on issues identified. This information is attached for your consideration.<sup>1</sup>

Sincerely,

Thomas Kabloona Nunavut Water Board

Chair

TK/kk/ri

Enclosure: Licence No. 3BC-ACS1313

Comments – EC, AANDC

Cc: Qikiqtani Distribution List

<sup>&</sup>lt;sup>1</sup> Aboriginal Affairs and Northern Development Canada (AANDC), May 21, 2013; and Environment Canada (EC), May 13, 2013.

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#### **DECISION**

#### **LICENCE NUMBER: 3BC-ACS1313**

This is the decision of the Nunavut Water Board (NWB) with respect to an application dated November 25, 2012 for a renewal of a Water Licence made by:

#### BENOIT BEAUCHAMP

to allow for the use of water and disposal of waste during camp activities and scientific research located at Arctic carbonates, Sandstones and Volcanic Rocks, NW Ellesmere Island Project located within the NW Ellesmere Island, Nunavut generally located at the geographical coordinates as follows:

#### **Project Extents**

NW:	Latitude:	81° 17' 15" N	Longitude: 85° 58' 18" W
NE:	Latitude:	81° 25' 77" N	Longitude: 84° 24' 30" W
SE:	Latitude:	81° 22' 19" N	Longitude: 84° 12' 36" W
SW:	Latitude:	81° 14' 13" N	Longitude: 85° 45' 79" W

#### **Camp Locations**

Latitude: 81° 25' 04" N	Longitude: 84° 26' 74" W
Latitude: 81° 22' 49" N	Longitude: 84° 38' 09" W
Latitude: 81° 18' 01" N	Longitude: 85° 24' 00" W
Latitude: 81° 15' 35" N	Longitude: 85° 50' 46" W

#### **DECISION**

After having been satisfied that the application was in conformity with the North Baffin Regional Land Use Plan (NBRLUP)<sup>1</sup> and exempt from the requirement for screening as described within Section 12.4.3 by the Nunavut Impact Review Board<sup>2</sup> in accordance with Article 12 of the *Nunavut Land Claim Agreement (NLCA)*, the NWB decided that the application could proceed through the regulatory process. In accordance with S.55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (Act)* and Article 13 of the *NLCA*, public notice of the application was given and interested persons were invited to make representations to the NWB.

After reviewing the submission of the Applicant and considering the representations made by interested persons, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *NLCA* and of the *Act*, waived the requirement to hold a public hearing, and determined that:

Licence No. 3BC-ACS1111 to be renewed as License No. 3BC-ACS1313 subject to the terms and conditions contained therein (Motion #: 2013-B1-08).

<sup>1</sup> NPC Determination dated March 25, 2013.

<sup>2</sup> NIRB Decision dated April 24, 2013.

Signed this 10<sup>th</sup> day of June 2013 at Gjoa Haven, NU.

Thomas Kabloona

Nunavut Water Board

Chair

TK/kk/ri



### NUNAVUT WATER BOARD WATER LICENCE RENEWAL

Licence No. 3BC-ACS1313

Pursuant to the Nunavut Waters and Nunavut Surface Rights Tribunal Act and the Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

#### BENOIT BEAUCHAMP

(Licensee)

### ARCTIC INSTITUTE OF NORTH AMERICA, UNIVERSITY OF CALGARY 2500 UNIVERSITY DRIVE NW, CALGARY, AB T2N 1N4

(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water or dispose of waste for a period subject to restrictions and conditions contained within this Licence renewal:

3BC-ACS1313 TYPE "B" Licence Number/Type:

Water Management Area: NUNAVUT 04

Location: ARCTIC CARBONATES. SANDSTONES AND VOLCANIC

ROCKS, NW ELLESMERE ISLAND PROJECT

QIKIQTANI REGION, NUNAVUT

Classification: MUNICIPAL UNDERTAKING

Purpose: DIRECT WATER USE AND DEPOSIT OF WASTE

Quantity of Water use not

to Exceed: ONE (1) CUBIC METER PER DAY

Date of Licence Issuance: JUNE 10, 2013

Expiry of Licence: **DECEMBER 31, 2013** 

This Licence renewal issued and recorded at Gjoa Haven, Nunavut, includes and is subject to the annexed conditions.

Thomas Kabloona,

**Nunavut Water Board** 

Chair

#### PART A: SCOPE, DEFINITIONS AND ENFORCEMENT

#### 1. **Scope**

This Licence allows for the use of water and the disposal of waste for a Municipal Undertaking classified as per Schedule II of the *Regulations* at the Arctic Carbonates, Sandstones and Volcanic Rocks, NW Ellesmere Island Project, located on Hvitland Peninsula, north of Otto Fiord, NW Ellesmere Island, approximately 550 km north of Grise Fiord within the Qikiqtani Region, Nunavut.

- a. This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing of waste of any type in any waters or in any place under any conditions where such waste or any other waste that results from the deposits of such waste may enter any waters. Whenever new Regulations are made or existing *Regulations* are amended by the Governor in Council under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, or other statutes imposing more stringent conditions relating to the quantity or type of waste that may be so deposited or under which any such waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be subject to such requirements; and
- b. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

#### 2. **Definitions**

"Act" means the Nunavut Waters and Nunavut Surface Rights Tribunal Act;

- "Addendum" means the supplemental text that is added to a full plan or report usually included at the end of the document and is not intended to require a full resubmission of the revised report.
- "<u>Amendment</u>" means a change to original terms and conditions of this Licence requiring correction, addition or deletion of specific terms and conditions of the Licence; modifications inconsistent with the terms of the set terms and conditions of the Licence:
- "Appurtenant Undertaking" means an undertaking in relation to which a use of water or a deposit of waste is permitted by a licence issued by the Board;
- "Board" means the Nunavut Water Board established under the *Nunavut Land Claims Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;
- "Effluent" means treated or untreated liquid waste material that is discharged into the environment from a structure such as a settling pond, landfarm or a treatment plant;

- "Engineer" means a professional engineer registered to practice in Nunavut in accordance with the Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2 and the Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12;
- "Greywater" means all liquid wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include toilet wastes;
- "<u>High Water Mark</u>" means the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land (ref. Department of Fisheries and Oceans Canada, Operational Statement: Mineral Exploration Activities);
- "Inspector" means an Inspector designated by the Minister under Section 85 (1) of the *Act*;
- "Licensee" means the holder of this Licence;
- "Modification" means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion;
- "Nunavut Land Claims Agreement (NLCA)" means the "Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada", including its preamble and schedules, and any amendments to that agreement made pursuant to it;
- "Regulations" means the Northwest Territories Water Regulations sor/93-303 8th June, 1993, omitting Section 5, Water Use or Waste Deposit Without a Licence;
- "Sewage" means all toilet wastes and greywater;
- "Spill Contingency Plan" means a Plan developed to deal with unforeseen petroleum and hazardous materials events that may occur during the operations conducted under the Licence;
- "Sump" means an excavation in impermeable soil for the purpose of catching or storing water or waste;
- "<u>Toilet Wastes</u>" means all human excreta and associated products, but does not include greywater;
- "<u>Waste</u>" means, as defined in S.4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to

its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means.

"Water" or "Waters" means waters as defined in section 4 of the Act.

#### 3. **Enforcement**

- a. Failure to comply with this Licence will be a violation of the *Act*, subjecting the Licensee to the enforcement measures and the penalties provided for in the *Act*;
- b. All inspection and enforcement services regarding this Licence will be provided by Inspectors appointed under the *Act*; and
- c. For the purpose of enforcing this Licence and with respect to the use of water and deposit or discharge of waste by the Licensee, Inspectors appointed under the *Act*, hold all powers, privileges and protections that are conferred upon them by the *Act* or by other applicable law.

#### PART B: GENERAL CONDITIONS

- 1. The water use fees, payable to the Receiver General for Canada, shall be sent to the Board annually for the right to the use of water in accordance with Section 9 of the *Regulations*.
- 2. The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board within sixty (60) days of completion of the field program, containing the following information:
  - a. A summary report of water use and waste disposal activities;
  - b. A list of unauthorized discharges and a summary of follow-up actions taken;
  - c. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations;
  - d. A summary of all information requested and results of the Monitoring Program; and
  - e. Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.
- 3. The Licensee shall notify the NWB of any changes in operating plans or conditions associated with this project at least thirty (30) days prior to any such change.
- 4. The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of water volumes as required under Part J, Item 1.

- 5. The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted, cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.
- 6. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
- 7. The Licensee shall review the Plans referred to in this Licence, as required by changes in operation and/or technology, and modify the Plan accordingly. Revisions to the Plans shall be submitted in the form of an Addendum to be included with the Annual Report.
- 8. Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.
- 9. The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times. Any communication with respect to this Licence shall be made in writing to the attention of:

#### (a) Manager of Licensing:

Nunavut Water Board

P.O. Box 119

Gjoa Haven, NU X0B 1J0

Telephone: (867) 360-6338 Fax: (867) 360-6369

Email: licensing@nunavutwaterboard.org

#### (b) Inspector Contact:

Manager of Field Operations, AANDC Nunavut District, Nunavut Region

P.O. Box 100

Iqaluit, NU X0A 0H0

Telephone: (867) 975-4295 Fax: (867) 979-6445

- 10. The Licensee shall submit one paper copy and one electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in Inuktitut (and/or Inuinnaqtun).
- 11. The Licensee shall ensure that any document(s) or correspondence submitted by the Licensee to the NWB is received and acknowledged by the Manager of Licensing.

12. This Licence is assignable as provided for in Section 44 of the *Act*.

#### PART C: CONDITIONS APPLYING TO WATER USE

- 1. The Licensee shall obtain all water for domestic camp use from melting snow patches or nearby unnamed creeks. Total camp water use shall not exceed one (1) cubic meter per day.
- 2. If the Licensee requires water in sufficient volume that the source water body may be drawn down the Licensee shall, at least thirty (30) days prior to commencement of use of water, submit to the Board for approval in writing, the following: volume required, hydrological overview of the water body, details of impacts, and proposed mitigation measures.
- 3. The Licensee shall equip all water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw water at a rate such that fish do not become impinged on the screen.
- 4. The Licensee shall not remove any material from below the ordinary High Water Mark of any water body unless authorized.
- 5. The Licensee shall not cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.
- 6. Sediment and erosion control measures shall be implemented prior to and maintained during the undertaking to prevent entry of sediment into water.

#### PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

- 1. The Licensee shall locate areas designated for waste disposal at a minimum distance of thirty one (31) metres from the ordinary High Water Mark of any water body such that the quality, quantity or flow of water is not impaired, unless otherwise approved by the Board in writing.
- 2. The Licensee shall not practice on-site land filling of domestic waste, unless otherwise approved by the Board in writing.
- 3. The Licensee shall not open burn plastics, wood treated with preservatives, electric wire, Styrofoam, asbestos or painted wood to prevent the deposition of waste materials of incomplete combustion and/or leachate from contaminated ash residual, from impacting any surrounding waters, unless otherwise approved by the Board in writing.
- 4. The Licensee shall provide to the Board documented authorization from the communities prior to any backhauling and disposal of wastes to those communities.

- 5. The Licensee shall backhaul and dispose of all hazardous wastes, waste oil and non-combustible waste generated through the course of the operation at a licensed waste disposal site.
- 6. The Licensee shall maintain records of all waste backhauled and records of confirmation of proper disposal of backhauled waste. These records shall be made available to an Inspector upon request.
- 7. The Licensee shall contain all greywater in a sump located at a distance of at least thirty one (31) metres above the ordinary High Water Mark of any water body, at a site where direct flow into a water body is not possible and no additional impacts are created, unless otherwise approved by the Board in writing.
- 8. The Licensee shall contain all toilet wastes in latrine pits or use incineration, chemical, portable or composting toilets. Latrine pits shall be located at a distance of at least thirty one (31) metres above the ordinary High Water Mark of any water body, treated with lime and covered with native material to achieve the pre-existing natural contours of the land prior to abandonment.

# PART E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS

- 1. The Licensee shall not erect camps or store material on the surface of frozen streams or lakes including the immediate banks except what is for immediate use. Camps shall be located such as to minimize impacts on surface drainage.
- 2. The Licensee shall conduct all activities in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake corrective measures in the event of any impacts on surface drainage.
- 3. The Licensee shall construct all winter lake and stream crossings, including ice bridges, entirely of water, ice or snow. The Licensee shall minimize disturbance by locating ice bridges in an area that requires the minimum approach grading and the shortest crossing route. Stream crossings shall be removed or the ice notched prior to spring break-up.
- 4. With respect to access road, pad construction or other earthworks, the deposition of debris or sediment into or onto any water body is prohibited. These materials shall be disposed of at a distance of at least thirty one (31) metres from the ordinary High Water Mark in such a fashion that they do not enter Water.

# PART F: CONDITIONS APPLYING TO DRILLING AND TRENCHING OPERATIONS

1. The Licensee is not authorized to drill under the provisions of this Licence.

#### PART G: CONDITIONS APPLYING TO MODIFICATIONS

- 1. The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:
  - a. the Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications;
  - b. such Modifications do not place the Licensee in contravention of the Licence or the *Act*:
  - c. such Modifications are consistent with the NIRB Screening Decision;
  - d. the Board has not, during the sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
  - e. the Board has not rejected the proposed Modifications.
- 2. Modifications for which all of the conditions referred to in Part G, Item 1 have not been met can be carried out only with written approval from the Board.
- 3. The Licensee shall provide as-built plans and drawings of the Modifications referred to in this Licence within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.

#### PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING

- 1. The Licensee shall implement the Plan entitled "Camp Fuel Spill Contingency Plan for University of Calgary's Arctic Carbonates, Sandstones and Volcanic Rocks, NW Ellesmere Island Project", dated March 15, 2011 that was approved by the Board with the original application.
- 2. The Licensee shall prevent any chemicals, petroleum products or wastes associated with the project from entering Water. All sumps and fuel caches shall be located at a distance of at least thirty one (31) metres from the ordinary High Water Mark of any adjacent water body and inspected on a regular basis.
- 3. The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other waste and contain potential spills.

- 4. If during the term of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:
  - a. Employ the approved Spill Contingency Plan;
  - b. Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
  - c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.

## PART I: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION OR TEMPORARY CLOSING

- 1. The Licensee shall complete all restoration work prior to the expiry of this Licence.
- 2. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee's operations.
- 3. The Licensee shall backfill and restore all sumps to the pre-existing natural contours of the land.
- 4. The Licensee shall remove from the site, all infrastructure and site materials, including all fuel caches, drums, barrels, buildings and contents, docks, water pumps and lines, material and equipment prior to the expiry of this Licence.
- 5. Areas that have been contaminated by hydrocarbons from normal fuel transfer procedures shall be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.
- 6. The Licensee shall contour and stabilize all disturbed areas to a pre-disturbed state upon completion of work.

#### PART J: CONDITIONS APPLYING TO THE MONITORING PROGRAM

- 1. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling, trenching and other purposes.
- 2. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of water are utilized for all

purposes.

- 3. The Licensee shall provide the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where wastes associated with camp operations and exploration activities are deposited.
- 4. Additional monitoring requirements may be requested by an Inspector.
- 5. The Licensee shall include in the Annual Report required under Part B, Item 2 all data, monitoring results and information required by this Part.