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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

File: 8WLC-CAR1516

January 22, 2015

Matthew B. Alkire  
Applied Physics Lab, University of Washington  
1013 NE 40th Street  
Seattle, WA 98105  
Email: [malkire@apl.washington.edu](mailto:malkire@apl.washington.edu)

**Subject: 8WLC-CAR1516 – Assessing the Impact of Small Canadian Arctic River Flows to the Freshwater Budget of the Canadian Archipelago - Approval for the Use of Waters or Deposit of Waste Without a Licence**

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Dear Matthew B. Alkire,

Please find attached approval number 8WLC-CAR1516 issued to Matthew B. Alkire/The Applied Physics Lab, University of Washington, by the Nunavut Water Board (NWB or Board) 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* (the Nunavut Land Claims Agreement or NLCA). The Approval has been authorized for a period of one (1) year after the day on which the Board approves the application and includes conditions related to the use of Waters or deposit of Waste which are an integral part of this Approval required for this type of authorization under the *Nunavut Waters Regulations* (NWR).

This approval and the conditions contained therein permits the carrying out of activities involving the use of Waters or deposit of Waste with respect to the Application for approval. Any variation from these activities may result in a violation of this Approval and contravention of the NLCA, the Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRTA) or the NWR. The NWB would like remind the Applicant of the obligations with respect to the reclamation and reporting which will arise as this Approval approaches its expiry.

If Matthew B. Alkire / The Applied Physics Lab, University of Washington contemplates the renewal of this Approval, it is the responsibility of the authorized entity to re-apply to the NWB. Note that if the approval expires before the NWB issues a renewal, the use of Waters or deposit of Waste must cease, or the Authorized Entity will be in contravention of the NLCA and the NWNSTRTA. The NWB recommends that an application for renewal of this Approval be filed at least thirty (30) days prior to its expiry date.

If the Authorized Entity contemplates changes to its undertaking involving a change in scope or increased activity, a water licence may be required. It is the Authorized Entity's responsibility to apply to the NWB for a water licence in accordance with the timelines set out for licences.

This Approval has been posted to the NWB's Public Registry and FTP site and is accessible from the following link (USERNAME public and PASSWORD registry): <ftp://ftp.nwb-oen.ca/1%20PRUC%20PUBLIC%20REGISTRY/8%20MISCELLANEOUS/8WL/8WLC%20-%20Camp/8WLC-CAR1415%20Alkire/>

Sincerely,



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Thomas Kabloona  
Nunavut Water Board  
Chair

TK/ce/mp

Enclosure: Approval Number: 8WLC-CAR1516

cc. KITIKMEOT & QIKIQTANI DISTRIBUTION



## NUNAVUT WATER BOARD APPROVAL WITHOUT A LICENCE

### APPROVAL DECISION

**APPROVAL NUMBER: 8WLC-CAR1516**

This is the decision of the Nunavut Water Board (NWB) with respect to an application for Approval for the use of Waters without a licence, dated November 24, 2014 made by:

**MATTHEW B. ALKIRE**  
**For**  
**THE APPLIED PHYSICS LAB, UNIVERSITY OF WASHINGTON**

to authorize the use of Waters during sampling activities at the “Assessing the Impact of Small Canadian Arctic River Flows to the Freshwater Budget of the Canadian Archipelago Project” located within the KITIKMEOT and the QIKIQTANI Regions, Nunavut and within Watersheds of: Coronation Gulf (29), Queen Maud Gulf (30), Rasmussen Basin – Larsen Sound (33), Western Somerset Island (44) and Southwestern Baffin Bay (49), generally located at the geographical coordinates as follows:

Camp:	No Camp	
Project:	Max Latitude: 74° 3' 00"	Max Longitude: 115° 4' 48"
	Min Latitude: 66° 54' 29"	Min Longitude: 68° 35' 10"

### DECISION

After ensuring that the application satisfied the requirements of Articles 11 and 12 of the *Nunavut Lands Claim Agreement* (NLCA) regarding land use plan conformity and development impact assessment; that the application satisfied the requirements of section 3 of the *Nunavut Waters Regulations* (NWR or *Regulations*); that the undertaking satisfied the requirements of sections 4 and 5 of the *Regulations* and that the applicant agreed to comply with sections 4(3), 5(4), and 6(1) of the *Regulations*, the NWB determined that:

**Approval Number 8WLC-CAR1516 be issued, subject to the conditions of Schedule 1 contained therein (Motion # 2014-WL-016).**

SIGNED this 22<sup>nd</sup> day of January, 2015 at Gjoa Haven, NU.

Thomas Kabloona  
Nunavut Water Board  
Chair

TK/ce/mp



**NUNAVUT WATER BOARD  
APPROVAL WITHOUT A LICENCE**

**APPROVAL NO. 8WLC-CAR1516**

Pursuant to the *Nunavut Waters Regulations*, *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:

**MATTHEW B. ALKIRE**

**THE APPLIED PHYSICS LAB, UNIVERSITY OF WASHINGTON**

of

**1013 NE 40TH STREET, SEATTLE, WA 98105**

Hereinafter called the Authorized Entity, the right to use of waters for a period of one (1) year after the day on which the Board approved the Application, subject to the conditions contained in Schedule 1 attached to this Approval:

Project Name: **ASSESSING THE IMPACT OF SMALL CANADIAN  
ARCTIC RIVER FLOWS TO THE FRESHWATER  
BUDGET OF THE CANADIAN ARCHIPELAGO**

Location: **KITIKMEOT AND QIKIQTANI REGIONS, NUNAVUT**

Water Management Area: **CORONATION GULF (29), QUEEN MAUD GULF (30),  
RASMUSSEN BASIN – LARSEN SOUND (33), WESTERN  
SOMERSET ISLAND (44), SOUTHWESTERN BAFFIN BAY  
(49) WATERSHEDS**

Classification of  
Undertaking: **OTHER**

Purpose: **DIRECT WATER USE**

Approval Criteria: **WATER USE OF ONE (1) CUBIC METRE PER DAY**

Date of Approval: **JANUARY 22, 2015**

Expiry of Approval: **JANUARY 21, 2016**

Dated this 22<sup>ND</sup> day of JANUARY, 2015, at Gjoa Haven, NU

Thomas Kabloona  
Nunavut Water Board Chair



## **SCHEDULE 1**

### **CONDITIONS FOR USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE**

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#### General

1. In the case of an Authorized Entity who has a mineral right and who intends to use Waters or deposit Waste in relation to that right, the Authorized Entity shall respect the priority conferred on Inuit by section 62 of the *Act* as if that applicant had a licence for the use or deposit.

#### Use of Waters

2. The Authorized Entity shall take measures prior to the use of Waters to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.

#### Deposit of Waste

3. All Waste will be flown out and disposed of at approved locations.

#### Abandonment and Restoration

4. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of Waters or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the use of Waters or the deposit of Waste occurred.<sup>a</sup>

#### Record Keeping

5. The Authorized Entity shall:
  - a. maintain accurate and detailed books and records of:
    - i. the quantity of water, in cubic metres, used each day,
    - ii. the quantity, in cubic metres, of waste deposited each day,
    - iii. the type of waste deposited each day,
    - iv. where the waste is deposited including GPS coordinates in Latitude and Longitude,
    - v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
    - vi. the methodology used to calculate or determine the information referred to in items (i) to (v), and
    - vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
  - b. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
  - c. submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within thirty (30) days



## SCHEDULE 1 (Cont.)

- after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the unlicensed use or deposit;<sup>b</sup> and
- d. keep the books and records for two years after submitting the report describing the restoration and undertakings.

### Notes:

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- a) A site need not be restored prior to the end of the period authorized for the use of water or the deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period.
- b) The Authorized Entity need not submit the report referred to in Item 6 (c) if the Authorized Entity obtains the Board's renewed approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste on the same site within thirty (30) days after the last day of the period previously authorized.