



## Application for Water Licence Renewal

Document Date: April 2013

Application Submission Date: **June 18, 2021**  
Month/Day/Year

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## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo and request for background information	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



OFFICE DES EAUX DU NUNAVUT

**2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.**

Name:

Address:

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

e-mail: \_\_\_\_\_

(Attach authorization letter.)

**3. NAME OF PROJECT**

Is the name of the project the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the name of the project including the name of the location: **Environment and Climate Change Canada – Eureka High Arctic Weather Station – Renewal – Type “B”.**

**4. LOCATION OF UNDERTAKING**

Is the location of the undertaking the same as that considered in the existing water licence?

☐ Yes ☒ No

**Project Extents**

NE	80° 0' 10.665" N	85° 54' 57.015" W
NW	79° 59' 21.095" N	85° 57' 5.209" W
SE	79° 57' 18.804" N	85° 18' 51.225" W
SW	79° 56' 29.467" N	85° 21' 1.742" W

**Camp Location(s)**

Camp 1 - 79° 59' 29.268" N 85° 52' 17.112" W

Camp 2 - 79° 59' 21.851" N 85° 53' 59.853" W

**5. MAP**

Are the locations of the main components of the undertaking the same as those considered in the existing licence?

☒ Yes ☐ No

Attach a topographical map, indicating the main components of the undertaking. **See Attachment A.**

NTS Map Sheet No.: **049G15**

Map Name: **Eureka High Arctic Weather Station Site Overview**

Map Scale: **1:50,000**

## 6. NATURE OF INTEREST IN THE LAND

Is the nature of the interest in the land the same as that considered in the existing water licence?

☒ Yes ☐ No

Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

### Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

### Surface

☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: **July 4, 2017 (Amended June 18, 2018)**

Date of expiry: **July 3, 2022**

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Commissioner's Land Use Authorization

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Other \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

\_\_\_\_\_

## 7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Is the undertaking located in the same land use planning area as that considered in the existing licence?

☒ Yes ☐ No

Indicate the land use planning area in which the project is located.

☒ North Baffin  
☐ South Baffin  
☐ Akunnig

☐ Keewatin  
☐ Sanikiluaq  
☐ West Kitikmeot

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. \_\_\_\_\_

Does the proposed renewal change the original NPC conformity determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_  
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

## 8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. \_\_\_\_\_

Does the proposed renewal change the original NIRB screening determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_  
If No, provide written confirmation from NIRB confirming that a screening determination is not required.

## 9. DESCRIPTION OF UNDERTAKING

Is the description of the undertaking the same as that considered in the existing water licence?

☐ Yes ☒ No

List and attach plans and drawings or project proposal.

**The Primary undertaking remains the same (federal weather and scientific station). Additional components include: Blacktop Creek water source being included within the 10,000 cubic metres (m<sup>3</sup>) per year, Quarry expansion activities at West Remus Creek Quarry will include the installation of culverts to support a maximum of two temporary (non-engineered) access crossings, a Waste Burn Request, and temporary storage of contaminated soils**

## 10. OPTIONS

Are the alternative methods and locations that were considered to carry out the project the same as those considered in the existing water licence?

☒ Yes ☐ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.  
**There are no alternative methods or locations available.**

## 11. CLASSIFICATION OF PRIMARY UNDERTAKING

Is the primary undertaking the same as that considered in the existing water licence?

☒ Yes ☐ No

Indicate the primary classification of undertaking by checking one of the following boxes.

- |   |  |
|---|--|
| <input type="checkbox"/> Industrial   | <input type="checkbox"/> Agricultural  |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) |  |
| <input type="checkbox"/> Conservation   |  |
| <input type="checkbox"/> Municipal (includes camps/lodges)                                    | <input type="checkbox"/> Recreational  |
| <input type="checkbox"/> Power  | <input checked="" type="checkbox"/> Miscellaneous (describe below):<br><u>Federal weather and scientific station</u> |

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

## 12. WATER USE

Is the type(s) of water use(s) the same as that considered in the existing water licence?

☒ Yes ☐ No

Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> To obtain water for camp/ municipal purposes |   |
| <input checked="" type="checkbox"/> To obtain water for industrial purposes      | <input type="checkbox"/> To divert a watercourse                    |
| <input type="checkbox"/> To cross a watercourse                                  | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input checked="" type="checkbox"/> To alter the flow of, or store water         | <input type="checkbox"/> Flood control                              |
| <input type="checkbox"/> Other: _____  |   |

### 13. QUANTITY OF WATER INVOLVED

Is the source of water the same as that considered in the existing licence? ☐ Yes ☒ No

Name of water source(s): **Station Creek and West Remus Creek remain the same; however, Blacktop Creek has been added as source for temporary use only during construction season (June to October) for dust suppression purposes.**

(show location(s) on map) – **See Attachment A.**

Is the quality of the water source and its available capacity the same as that considered in the existing licence?

☒ Yes ☐ No

Describe the quality of the water source(s) and the available capacity(s): **The quality of the water source is good and meets and/or exceeds the Canadian Drinking Water Quality Guidelines. Water sources have historically been able to provide adequate supply up to the maximum yearly requirement of 10,000 m<sup>3</sup>.**

Is the overall estimated quantity of water to be used the same as that considered in the existing licence?

☒ Yes ☐ No

Provide the overall estimated quantity of water to be used: **299 m<sup>3</sup>/day**

Are the quantity(s) of water to be used from each source the same as those considered in the existing licence?

☐ Yes ☒ No

Provide the estimated quantity(s) of water to be used from each source:

- **Station Creek – Between approximately 5,850 to 8,775 m<sup>3</sup> of water per year.**
- **West Remus Creek – Between approximately 600 to 800 m<sup>3</sup> of water per year.**
- **Blacktop Creek – Between approximately 300 to 425 m<sup>3</sup> of water per year.**

Are the quantity(s) of water to be used for each purpose the same as those considered in the existing licence?

☐ Yes ☒ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.): **All water from Station Creek is to be used for domestic purposes at the Eureka High Arctic Weather Station, including the temporary construction camp(s). All water from West Remus Creek and Blacktop Creek is to be used for dust suppression purposes only.**

Are the method(s) of extraction the same as those considered in the existing licence? ☒ Yes ☐ No

Describe the method(s) of extraction: **Pumping water from Station Creek into the reservoir. Pumping water from West Remus Creek and Blacktop Creek in small quantities into vehicle for dust suppression purposes during construction activities.**

Are the quantity(s) of water returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Estimated quantity(s) of water returned to source(s): **N/A, water is not returned to source.**

Are the quality(s) of water(s) returned to source(s) the same as those considered in the existing licence?

☒ Yes ☐ No

Describe the quality(s) of water(s) returned to source(s): **N/A, water is not returned to source.**



#### 14. WASTE

Are the type(s) of waste(s) to be generated and/ or deposited the same as those considered in the existing licence?

☒ Yes ☐ No

Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Sewage       | <input checked="" type="checkbox"/> Waste oil           |
| <input checked="" type="checkbox"/> Solid Waste  | <input checked="" type="checkbox"/> Greywater           |
| <input checked="" type="checkbox"/> Hazardous    | <input type="checkbox"/> Sludges                        |
| <input type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste            |   |
| <input type="checkbox"/> Other (describe): _____ |   |

#### 15. QUANTITY AND QUALITY OF WASTE INVOLVED

Are the quantity(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the composition(s) of the types of wastes involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of treatment for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

Are the method(s) of disposal for the types of waste involved the same as those considered in the existing licence?

☒ Yes ☐ No

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Grey water and sewage	Provided in the 2020 Annual Report Annual reporting, which was submitted to NWB on March 22, 2021	Approximately 3000 m <sup>3</sup> /year	Sewage lagoon sedimentation	Decant into Slidre Fjord once per year
Solid wastes	Household food/organic matter	Approx. 3 bags per day for incineration totaling approx. 24 205 L barrels/year of ash	Incineration	Ash is deposited in landfill and capped
Solid wastes	Scrap metal barrels & bulk garbage	Varies per year pending operations	Crushed and buried	Buried and capped at landfill
Hazardous Waste	Old lead/zinc batteries, solvent & glycol	Varies per year pending operations	Temporary on-site storage	Shipped off-site
Waste oil	Used motor oil	Varies per year pending operations	Filtered for particulates	Reused as an alternative heating fuel or shipped off-site
Combustible wastes	Uncontaminated wood waste	613m <sup>3</sup>	Burned on-site	Ash disposed in non-hazardous waste facility on-site
Non-Combustible wastes	Sheet metal siding	81m <sup>3</sup>	Disposed on-site in non-hazardous waste facility	Should hazardous waste be attached, it will be removed and disposed of appropriately.
Non-Combustible wastes	Mixed metals	71m <sup>3</sup>	Disposed on-site in non-hazardous waste facility	Should hazardous waste be attached, it will be removed and disposed of appropriately.
Non-Combustible wastes	Spray applied insulation	282m <sup>3</sup>	Disposed on-site in non-hazardous waste facility	Should hazardous waste be attached, it will be removed and disposed of appropriately.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
General rubble	General rubble	920m <sup>3</sup>	Disposed on-site in non-hazardous waste facility	Should hazardous waste be attached, it will be removed and disposed of appropriately.
Hazardous Waste	Asbestos	84m <sup>3</sup>	Disposed off-site at appropriate facility	Hazardous waste will be containerized and shipped off-site
Hazardous Waste	Lead (paint and lead amended paint, lead-containing materials)	~ 95m <sup>3</sup>	Disposed off-site at appropriate facility	Hazardous waste will be containerized and shipped off-site
Hazardous Waste	Mercury, Radioactive and ODS items	<3m <sup>3</sup>	Disposed off-site at appropriate facility	Hazardous waste will be containerized and shipped off-site
Hazardous Waste	PCB items	5.5m <sup>3</sup>	Disposed off-site at appropriate facility	Hazardous waste will be containerized and shipped off-site
Petroleum/Cleaning products	Petroleum/Cleaning products	1m <sup>3</sup>	Disposed off-site at appropriate facility	Hazardous waste will be containerized and shipped off-site
Creosote treated timbers	Creosote treated timbers	12 tonnes	Characterization to be completed	On-site (if not hazardous) and off-site (if hazardous)

#### 16. OTHER AUTHORIZATIONS

In addition to the sub-surface and surface land use authorizations provided in Block 6, are the same authorizations required as considered in the existing licence?

☐ Yes ☐ No

For each provide the following: **N/A**

Authorization: \_\_\_\_\_

Administering Agency: \_\_\_\_\_

Project Activity: \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

#### 17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Are predicted environmental impacts of the undertaking and proposed mitigation measures the same as those considered in the existing water licence?

☒ Yes ☐ No

Describe direct, indirect, and cumulative impacts related to water and waste.

**There are no anticipated environmental impacts of the undertaking as indicated in the previously approved licence application.**

#### 18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Are the effects of the undertaking on any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature, the same as those considered in the existing water licence?

☒ Yes ☐ No

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

**19. INUIT WATER RIGHTS**

Are the effects of the undertaking on the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL) the same as those considered in the existing water licence?

☒ Yes ☐ No

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

**20. CONSULTATION** - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

**N/A**

**21. SECURITY INFORMATION**

Is the financial security assessment the same as that considered in the existing water licence? **N/A**

☐ Yes ☐ No **N/A**

Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence?

☐ Yes ☐ No **N/A**

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

**22. FINANCIAL INFORMATION**

Is the statement of financial security the same as that considered in the existing water licence? **N/A**

☐ Yes ☐ No **N/A**

Provide an updated statement of financial security. **N/A**

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence? **N/A**

☐ Yes ☐ No **N/A**

Provide a list of the officers of the company. **N/A**

Is the Certificate of Incorporation or evidence of registration of the company name the same? **N/A**

☐ Yes ☐ No **N/A**

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

### 23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

**The Environmental Impact Assessment was completed in 2016 and an Addendum was conducted in 2018. These documents were previously submitted to the Nunavut Water Board (NWB) as part of the 2016 Application.**

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

**Annual reporting for the Eureka High Arctic Weather Station was completed for 2020 and was submitted to the NWB on March 22, 2021.**

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

**N/A**

### 24. PROPOSED TIME SCHEDULE

Is the time schedule for all phases of development (construction, operations, closure and post closure) the same as that considered in the existing licence?

☒ Yes ☐ No

Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: **Construction in place** Proposed Completion Date: **Construction in place**  
(month/year) (month/year)

Operation

Proposed Start Date: **Currently in operation** Proposed Completion Date: **None – Year-round operation**  
(month/year) (month/year)

Closure

Proposed Start Date: **Unknown** Proposed Completion Date: **Unknown**  
(month/year) (month/year)

Post - Closure

Proposed Start Date: **Unknown** Proposed Completion Date: **Unknown**  
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction

☐ Winter ☐ Spring ☒ Summer ☐ Fall ☐ All season

Operation

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☒ All season

Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season **Unknown**

Post - Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season **Unknown**

## 25. PROPOSED TERM OF LICENCE

On what date does the existing licence expire? **August 10, 2021**

Indicate the proposed term of the renewal (maximum of 25 years): **10 years**

Requested date of renewal issuance: **08/2021**  
(month/year)

Requested Expiry Date: **08/2031**  
(month/year)

(The requested date of renewal issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

## 26. ANNUAL REPORTING

Is the annual report template expected to be the same as that considered in the existing licence?

☒ Yes ☐ No

If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

## 27. CHECKLIST

The following must be included with the application for renewal for the water licensing process to begin.

Completed Application for Water Licence Renewal form.

☒ Yes ☐ No If no, date expected \_\_\_\_\_

Updated plans, including designs and reports (see Block 23).

☒ Yes ☐ No If no, date expected \_\_\_\_\_

Updated security assessment (see Block 21).

☐ Yes ☒ No If no, date expected **N/A**

Updated financial statement (see Block 22).

☐ Yes ☒ No If no, date expected **N/A**

Compliance Assessment / Status Report (see Block 23).

☐ Yes ☒ No If no, date expected **N/A**

English Summary of Renewal Application.

☒ Yes (**Attachment B**) ☐ No If no, date expected \_\_\_\_\_

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

☒ Yes (**Attachment C**) ☐ No If no, date expected \_\_\_\_\_

Application fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No If no, date expected **N/A for ECCC**

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☒ No If no, date expected **N/A for ECCC**

**28. SIGNATURE**

I, Asif Mohammed (print name)

certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date