



Application for Water Licence Amendment

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P.O. BOX 119
GJOA HAVEN, NUNAVUT
XOB 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT IMALIRIYIN KATIMAYIT
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

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; request for background information; and change to Block 24	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 3BC-FOH0919

1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

Yes No

If No, a licence assignment must be completed and approved by the NWB. **An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: **North Warning System Office
Department of National Defence
C/O Major Christopher Greaves**

Address: **National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2**

Phone: **819-939-4963**
e-mail: **Christopher.Greaves@forces.gc.ca**

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

Name: : **Same as Block 1**

Address: **Same as Block 1**

Phone: **Same as Block 1**

e-mail: **Same as Block 1**

(Attach authorization letter.)

3. NAME OF PROJECT

Has the name of the project changed?

Yes No

If Yes, indicate the name of the project including the name of the location: _____

4. LOCATION OF UNDERTAKING

Does the proposed amendment change the location of the amended undertaking?

Yes No

Provide the project extents and camp locations. Identify proposed changes.

Project Extents

NW: Latitude: (	°	,	"	N	Longitude: (	°	,	"	W)
NE: Latitude: (	°	,	"	N	Longitude: (	°	,	"	W)
SE: Latitude: (	°	,	"	N	Longitude: (	°	,	"	W)
SW: Latitude: (	°	,	"	N	Longitude: (	°	,	"	W)

Camp Location(s)

Latitude: (68° 45' 40" N) Longitude: (81° 13' 36" W)

5. MAP

Does the proposed amendment change the locations of any of the main components of the undertaking?

Yes No

Attach a topographical map, indicating the main components of the undertaking. Identify proposed changes.

NTS Map Sheet No.: _____ Map Name: _____ Map Scale: _____

6. NATURE OF INTEREST IN THE LAND

Does the proposed amendment change the nature of the interest in the land?

Yes No

If Yes, indicate changes. _____

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) **Land Administered by the Department of National Defence**
Date (expected date) of issuance: _____ Date of expiry: _____ **not applicable**

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

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

North Baffin Keewatin
 South Baffin Sanikiluaq
 Akunniq West Kitikmeot

Does the proposed amendment change the land use planning area?

Yes No

If yes, indicate the land use planning area in which the amended undertaking is located.

<input type="checkbox"/> North Baffin	<input type="checkbox"/> Keewatin
<input type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq
<input type="checkbox"/> Akunniq	<input type="checkbox"/> West Kitikmeot

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

Yes No

At the time of the previous application submission FOX-M, Hall Beach was considered outside of the NPC planning region; please see attached email regarding the NPC Determination.

If Yes, indicate date issued and attach copy. _____

Does the proposed amendment 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. 26-Oct-2018

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

Note that the 2009 renewal of the licence was determined to not require a conformity determination.

For the 2019 renewal conformity determination see attached “Annex A1 - NPC File 148954, 3BC-FOH0919 Renewal - NIRB Screening Required (26Oct2018).pdf”

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. October 31, 2003 - 03DN121

Does the proposed amendment 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. 21-Dec-2018

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

The NIRB Screening Decision Report is attached “Annex A2 - 181221-03DN013-NIRB Screening Decision Report-OT8E.pdf”

9. DESCRIPTION OF UNDERTAKING

Does the proposed amendment change the description of the undertaking?

Yes No

List and attach plans and drawings or project proposal. Identify proposed changes.

10. OPTIONS

Does the proposed amendment change any of the alternative methods and locations that were considered to carry out the project?

Yes No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project. Identify proposed changes.

11. CLASSIFICATION OF PRIMARY UNDERTAKING

Indicate the primary classification of undertaking for the existing licence 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 checked="" type="checkbox"/> Municipal (includes camps/lodges)	<input type="checkbox"/> Recreational
<input type="checkbox"/> Power	<input type="checkbox"/> Miscellaneous (describe below):

Does the proposed amendment change the classification of primary undertaking?

Yes No

If Yes, indicate the primary undertaking of the amendment: _____

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be updated and submitted with an Application for Amendment. Indicate which SIG(s) are applicable to your application.

<input type="checkbox"/> Hydrostatic Testing	
<input type="checkbox"/> Tannery	
<input type="checkbox"/> Tourist / Remote Camp	
<input checked="" type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil	
<input type="checkbox"/> Onshore Oil and Gas Exploration Drilling	
<input checked="" type="checkbox"/> Mineral Exploration / Remote Camp	
<input type="checkbox"/> Advanced Exploration	
<input type="checkbox"/> Mine Development	
<input type="checkbox"/> Municipal	
<input type="checkbox"/> General Water Works	
<input type="checkbox"/> Power	

12. WATER USE

Indicate, using the boxes below, the types of water use(s) approved in the existing licence.

<input checked="" type="checkbox"/> To obtain water for camp/ municipal purposes	
<input 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 type="checkbox"/> To alter the flow of, or store water	<input type="checkbox"/> Flood control
<input type="checkbox"/> Other: _____	

Does the proposed amendment change the type(s) of water use(s)?

Yes No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water

use(s) that are to be added, continued, or removed.

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

13. QUANTITY OF WATER INVOLVED

Does the proposed amendment change the source of water?

Yes No

Indicate the water source(s). Identify proposed changes:

There will be no changes to the source of water for this site it will continue to be extracted from the fresh water supply lake (referred to as FOH-1 in current licence). _____
(show location(s) on map)

Does the proposed amendment change the quality of the water source and/or its available capacity?

Yes No

Describe the quality of the water source(s) and the available capacity(s). Identify any changes: _____

Does the proposed amendment change the overall quantity of water to be used?

Yes No

Provide the overall estimated quantity to be used. Identify proposed changes.

Does the proposed amendment change the quantity of water to be used from each source?

Yes No

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

Does the proposed amendment change the quantity of water to be used for each purpose?

Yes No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes:

Currently all of the water used at FOX-M is used for domestic purposes.

As a requirement of on-going site operations may be used for dust suppression and compaction. It is estimated that 50 m³ will be used for compaction, dust suppression and for the treatment of the impacted soil (industrial usage); the remainder will be used for domestic purposes.

Note that all of the water used at FOX-M is drawn from a man-made reservoir only. No water is drawn from natural sources.

Does the proposed amendment change the method(s) of extraction? Yes No

Describe the method(s) of extraction. Identify proposed changes. : _____

Does the proposed amendment change the quantity(s) of water returned to source(s)?

Yes No

Estimated quantity(s) of water returned to source(s). Identify proposed changes. : _____ m³/day

Does the proposed amendment change the quality(s) of water returned to source(s)?

Yes No

Describe the quality(s) of water(s) returned to source(s). Identify any changes. : _____

14. WASTE

Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.

<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 checked="" type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Contaminated soil and/or water
<input type="checkbox"/> Animal Waste	
<input type="checkbox"/> Other (describe): _____	

Does the proposed amendment change the type(s) of waste(s) to be generated or deposited?

Yes No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).

<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 checked="" type="checkbox"/> Bulky Items/Scrap Metal	<input checked="" type="checkbox"/> Contaminated soil and/or water
<input type="checkbox"/> Animal Waste	
<input type="checkbox"/> Other (describe): _____	

A generic landfarm plan has been developed to identify the proposed location of a landfarm on-site and the overall process that will be followed. If landfarming is conducted on-site, an engineered design for the landfarm will be completed. The generic plan is attached as "Annex A3 – FOX-M Landfarm Plan".

15. QUANTITY AND QUALITY OF WASTE INVOLVED

Does the proposed amendment change the quantity(s) of the types of wastes involved?

Yes No

Does the proposed amendment change the composition(s) of the types of wastes involved?

Yes No

Does the proposed amendment change the method(s) of treatment for the types of waste involved?

Yes No

Does the proposed amendment change the method(s) of disposal for the types of waste involved?

Yes No

If Yes to any of the above, describe the proposed changes: _____

The proposed changes to the quality of the waste to be added to the existing licence include the on-site treatment of contaminated soil in an engineered landfarm facility. Additionally, all non-hazardous domestic solid waste is currently disposed of through a contract with the Municipality of Cambridge Bay for the deposit of waste in the local municipal dump. That arrangement will continue; however, some solid waste (waste paper products and packaging, untreated wood and natural fiber textiles) may eventually be incinerated on-site in consultation with the Government of Nunavut, Guideline for the Burning and Incineration of Solid Waste.

It is proposed that the water from the Bermed Fuel Storage Facility be tested on-site as described in the 'QA/QC Plan for Berm Water Sampling at CAM-M, CAM-3, FOX-M, FOX-3, and DYE-M (Annex A4)'.

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
Sewage and Greywater combined		6 m ³ /day	Tertiary Sewage Treatment	Discharge treated blackwater at outfall area
Waste Oil		5.5 m ³ /season	None	Off-site-south
Solid Waste		10 m ³ /season	None	Off-site-south
Hazardous	Waste paint, tank cleaning effluent, fuel, batteries, oily rags and glycol-soaked rags and pads.	5 m ³ /season		Off-site-south
Contaminated Soil		As required		Off-site-south for small quantities, Land farm on-site for large quantities.

16. OTHER AUTHORIZATIONS

Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6?

Yes No

If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.

For each provide the following:

Authorization: _____

Administering Agency: _____

Project Activity: _____

Date (expected date) of issuance: _____ Date of expiry: _____

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?

Yes No

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

18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?

Yes No

If Yes, provide the names, addresses and the nature of water use by those persons or properties.

Does the proposed amendment adversely affect 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?

Yes No

If Yes, provide the names, addresses and the nature of water use of those persons or properties.

Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been

reached with any existing or other water users with respect to the proposed amendment.

19. INUIT WATER RIGHTS

Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?

Yes No

If Yes, which DIO(s) _____

Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?

Yes No

If Yes, 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 DIO(s) with respect to the proposed amendment.

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.

21. SECURITY INFORMATION

Does the proposed amendment change the financial security assessment?

Yes No

Does the proposed amendment change the estimate of the total financial security for final reclamation?

Yes No

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. Identify any changes in the financial security assessment resulting from the proposed amendment.

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?

Yes No

Provide an updated statement of financial security.

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?

Yes No

Provide a list of the officers of the company.

Is the Certificate of Incorporation or evidence of registration of the company name the same?

Yes No

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.

See 'Annex A5 - 170925 3BC-FOH0919_AUGUST_2017_INSPECTION_REPORT-ILAE.pdf' for the most recent water licence inspection of FOX-M.

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.

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.

See 'Annex A6 - NWB Licence Compliance Assessment.xlsx' for a compliance assessment with the current water licence and any comments received from a water licence inspection since August 2009.

24. PROPOSED TIME SCHEDULE

When are proposed amendments scheduled to be undertaken: _____ No timeline has been set _____

Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?

Yes No

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

Construction

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Operation

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(month/year) (month/year)

Post - Closure

Proposed Start Date: _____ Proposed Completion Date: _____
(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

Post - Closure

Winter Spring Summer Fall All season

25. PROPOSED TERM OF LICENCE

On what date does the existing licence expire? Aug 31, 2019

Is the Licensee applying for a combined renewal and amendment of the existing licence?

Yes No

If Yes, indicate the proposed term of the renewal (maximum of 25 years): 10 years

Requested date of renewal issuance: March 2019 (month/year) Requested Expiry Date: March 2029 (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

Will the proposed amendment change the content of annual reports or the annual report template?

Yes No

If Yes, 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 Amendment for the water licensing process to begin.

Completed Application for Water Licence Amendment form.

Yes No If no, date expected _____

Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)

Yes No If no, date expected _____

Compliance Assessment / Status Report (see Block 23).

Yes No If no, date expected _____

Indication of Renewal Requirement (see Block 26)

Yes No If no, date expected _____

English Summary of Amendment Application.

Yes No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Amendment Application.

Yes No If no, date expected _____

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

Yes No If no, date expected _____ n/a

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

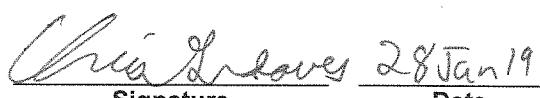
28. SIGNATURE

Major Chris Greaves

Officer Commanding,
Det NWS, Real
Property Operations
(North)

Name (Print)

Title (Print)

 28 Jan 19

Signature

Date