



# Application for Water Licence Amendment

April 2010

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 NUNAVUT WATER BOARD  
 OFFICE DES EAUX DU NUNAVUT

## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

	Description	Date
(1)		
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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.

EXISTING LICENCE NO: 1BR-FOX0713

#### 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. **A renewal 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: Mr. Imad Jaradat

Address:

DGME  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2

Phone: 613-996-1094  
Fax: 613-996-9847  
e-mail: imad.jaradat@dcc-cdc.gc.ca

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

Name:

Address:

Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
e-mail: \_\_\_\_\_

(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: *FOX-4, Cape Hooper Site Remediation*

**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**

Min: Latitude: (7592750N)

Min: Longitude: (588000E)

Max: Latitude: (7597250N)

Max. Longitude: (590250E)

**Camp Location(s)**

*Latitude: (7596000 N)*

*Longitude: (588250 E)*

**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.: 27B

Map Name: Ekalugad Fiord

Map Scale: 1:250,000

**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)

Date (expected date) of issuance: N2010X0009 Date of expiry: August 31, 2011

☐ 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  
☐ South Baffin  
☐ Akunnig

☐ Keewatin  
☐ Sanikiluaq  
☐ 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.

☐ 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. July 27, 2007

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. \_\_\_\_\_  
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. August 30, 2007

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. March 15, 2011  
If No, provide written confirmation from NIRB confirming that a screening determination is not required.

**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.

*Additional remedial work is being completed to ensure the site is in compliance with the DND-NTI Cooperation Agreement, which was not yet in place at the time of the clean up of FOX-4. See attached.*

**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 type="checkbox"/> Municipal (includes camps/lodges)                                    | <input type="checkbox"/> Recreational                                |
| <input type="checkbox"/> Power  | X Miscellaneous (describe below):<br><u>Remediation and landfill</u> |

monitoring

Does the proposed amendment change the classification of primary undertaking?

X Yes    ☐ No

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

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.

- ☐ Hydrostatic Testing
- ☐ Tannery
- X Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☐ Mineral Exploration / Remote Camp
- ☐ Advanced Exploration
- ☐ Mine Development
- ☐ Municipal
- ☐ General Water Works
- ☐ Power



## 12. WATER USE

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

☒ To obtain water for camp/ municipal purposes

☐ To obtain water for industrial purposes

☐ To cross a watercourse

☐ To alter the flow of, or store water

☐ Other: \_\_\_\_\_

☐ To divert a watercourse

☐ To modify the bed or bank of a watercourse

☐ Flood control

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.

☐ To obtain water for camp/ municipal purposes

☐ To obtain water for industrial purposes

☐ To cross a watercourse

☐ To alter the flow of, or store water

☐ Other: \_\_\_\_\_

☐ To divert a watercourse

☐ To modify the bed or bank of a watercourse

☐ Flood control

**13. QUANTITY OF WATER INVOLVED**

Does the proposed amendment change the source of water? ☐ Yes ☒ No

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

*Water Supply Lake, as shown on Drawing 101.*

(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.: \_\_\_\_\_

*Based on the testing carried out in 2010, the water is potable, but will be tested throughout the project.*

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. : *18 m<sup>3</sup>/day*

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. :

*The only water source is the water supply lake.*

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.:

*There will be more people in camp, likely around 60, for the duration of the work. Therefore, the quantity of water to be used will be 18 m<sup>3</sup>/day, as opposed to the current licensed volume of 2 m<sup>3</sup>/day.*

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

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

*Water will be extracted using a pump and hose equipped with a screen to ensure fish do not become entrapped. The water will then be stored in a tank at the camp site.*

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. : *0 m<sup>3</sup>/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 type="checkbox"/> Waste oil                      |
| <input checked="" type="checkbox"/> Solid Waste  | <input type="checkbox"/> Greywater                      |
| <input 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): _____ |   |

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 type="checkbox"/> Waste oil                                 |
| <input checked="" type="checkbox"/> Solid Waste             | <input checked="" type="checkbox"/> Greywater                      |
| <input 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): _____            |  |

# 15. QUANTITY AND QUALITY OF WASTE INVOLVED

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

☒ Yes ☐ No

*The camp is larger and will operate for a longer season than for landfill monitoring. Therefore, more waste will be generated.*

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

☒ Yes ☐ No

*Greywater will be produced. As well, some bulk items may be produced if fuel is brought in drums. However, it is more likely the successful contractor will store fuel in larger, double-walled tanks. Also, contaminated soils are being removed.*

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

☒ Yes ☐ No

*Sewage and greywater generated by the camp will be deposited into a lagoon for treatment before being released.*

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

☒ Yes ☐ No

*Contaminated soils deemed hazardous will be transported off-site. Hydrocarbon impacted soils will be treated on-site in a landfarm, Tier I contaminated soils will be disposed of in the Non-Hazardous Waste Landfill and Tier II impacted soils will be disposed of in the Tier II Soil Disposal Facility. Any bulk items produced will either be disposed of on-site in the non-hazardous waste landfill being constructed, or they will be transported off-site.*

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

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/Grey water		14 m3/day	2-cell lagoon	Released to tundra once treated
Contaminated soil		12,000	8100-landfarm	2,400-Tier II Facility; 1,250 Non-Haz Landfill; 250 off-site
Bulky items	Fuel drums			Off-site or non-haz landfill
2-FOX4 2011 Application_for_Water_Licence_Amendment.doc				10

**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: Land Use Permit and Quarry Permits

Administering Agency: Indian and Northern Affairs Canada – Land Administration

Project Activity: Remediation work and quarrying for granular material

Date (expected date) of issuance: June 3, 2010 Date of expiry: Aug. 31, 2011

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

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

☒ Yes ☐ No

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

See attached.

**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.

Community meetings are being held by the proponent between February 28 and March 4, 2011 in the communities of Qikiqtarjuaq, Clyde River and Pangnirtung. Additional meetings will be held by the successful contractor once, the contract has been awarded.

**21. SECURITY INFORMATION – N/A, Federal Applicant**

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 – N/A, Federal Applicant**

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.

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.

*An annual report was submitted for landfill monitoring work completed in 2008. No work was completed in 2009. The 2010 annual report is currently being prepared and will be submitted on March 31, 2011. An updated spill contingency plan will also be provided with the 2010 annual report.*

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

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

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

☐ Winter ☐ Spring ☒ Summer ☐ Fall ☐ All season



On what date does the existing licence expire? December 31, 2013

X Yes ☒ No

Requested date of renewal issuance: June 2011 Requested Expiry Date: December 2023  
(month/year) (month/year)

X Yes      ☐ No

*For the years where remedial work is being completed, a summary of the work and the testing completed will be submitted.*

## 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.

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

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

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

Compliance Assessment / Status Report (see Block 23).

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

Indication of Renewal Requirement (see Block 26)

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

English Summary of Renewal Application.

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

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

☐ Yes X No If no, date expected February 22, 2011

Application fee of \$30.00 CDN (Payee Receiver General for Canada). – ***N/A, Federal Applicant***

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

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 X No If no, date expected \_\_\_\_\_

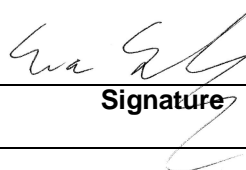
## 28. SIGNATURE

Eva Schulz for Imad  
Jaradat

Name (Print)

Environmental Scientist

Title (Print)



Signature

Feb. 9, 2011

Date