

Application for Water Licence Renewal

April 2010

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

NUNAVUT WATER BOARD

P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR WATER LICENCE RENEWAL

Your application may be classified as a **renewal** only if all operations remain the same as previously licensed and only the term of the licence requires change. If your application contemplates:

- a change to water source;
- a change to the volume of water authorized for use;
- a new activity related to water use or waste disposal;
- a new component related to water use or waste disposal;
- a change in predicted environmental impacts(s); and/or
- a change to any term or condition of the original licence

your application is **NOT** classified as a renewal but rather an amendment and will require submission of an application for water licence amendment.

EXISTING LICENCE NO:
02-062 10R-M (0201909N-M)

1. LICENSEE CONTACT INFORMATION

Is the name of the licensee the same as the name on the existing licence?

☒ Yes ☐ No

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

Name: E. Turner

Address: Dept of Earth Sciences, Laurentian University
Sudbury ON P3E 2C6

Phone: 705-675-1151 x2267

Fax:

e-mail: eturner@laurentian.ca

2. LICENSEE REPRESENTATIVE CONTACT INFORMATION

Name: E. Turner

Address: Dept of Earth Sciences, Laurentian University
Sudbury ON P3E 2C6

Phone: 705-675-1151 x2267
Fax
e-mail: eturner@laurentian.ca

3. NAME OF PROJECT

Mesoproterozoic basins of eastern Arctic islands, NU

4. LOCATION OF UNDERTAKING

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

☐ Yes x No

Camp Location(s)

Latitude: (72° 57 ' 20 " N) Longitude: (84 ° 09 ' 12 " W)
Latitude: (72° 25 ' 05 " N) Longitude: (81 ° 23' 47 " W)

5. MAP

Attach a topographical map, indicating the main components of the undertaking

NTS Map Sheet No. 48A and 48B

Scale: 1:250 000

6. NATURE OF THE 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 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: _____ Date of expiry: _____

☐ 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 Qikitan 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 May 5, 2010

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 - Attach plans and drawings or project proposal

Scientific descriptions (stratigraphy, sedimentology) of rocks exposed at the two proposed locations (see maps). No infrastructure will be developed.

10. OPTIONS - Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

The locations are dictated by the types of rock exposed; different locations cannot be substituted.

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 type="checkbox"/> Miscellaneous (describe below):
scientific research (university) |

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 domestic purposes | <input type="checkbox"/> Flood control |
| <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"/> 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): whatever watercourse is closest (usually a small creek)
(show location(s) on map)

Is the quality of the water source and/or 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: surface drainage (creeks and streams)

Is the quantity of water to be used from each source the same as that considered in the existing licence?

☒ Yes ☐ No

Estimated quantity(s) of water to be used from each source:

☒ 100m³/day or less
☐ Greater than 100m³/day

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

approximately fifteen litres per day

Is the method of extraction the same as that considered in the existing licence? ☒ Yes ☐ No

Describe the method of extraction: scoop with water bottle

Is the quantity of water returned to source(s) the same as that considered in the existing licence? ☒ Yes ☐ No

Estimated quantity(s) of water returned to source(s) <1 m³/day

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

☒ Yes ☐ No

Describe the quality of water returned to source(s): excellent

14. WASTE

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

x Yes ☐ No

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

- | | |
|--|---|
| <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 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

Is the quantity of the types of wastes involved the same as that considered in the existing licence?

x Yes ☐ No

Is the composition of the types of wastes involved the same as that considered in the existing licence?

x Yes ☐ No

Is the method of treatment for the types of waste involved the same as that considered in the existing licence?

x Yes ☐ No

Is the method of disposal for the types of waste involved the same as that considered in the existing licence?

x Yes ☐ No

For each type of waste indicated in Block 13, 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		<5 litres/day		burial
greywater		<10 litres/day		burial
solid		<1 bag per week		transport to municipal dump

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?

xYes ☐ No

Authorization: NRI research licence renewal

Administering Agency: NRI

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?

x Yes ☐ No

Describe direct, indirect, and cumulative impacts

There will be no enduring impacts.

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?

x 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?

x 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.
21. SECURITY INFORMATION N/A - This is an academic research project. Is the financial security assessment the same as that considered in the existing water licence? <input type="checkbox"/> Yes <input type="checkbox"/> No Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence? <input type="checkbox"/> Yes <input type="checkbox"/> No Provide an updated financial security assessment prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut</i> , Indian and Northern Affairs Canada, 2002. Provide an updated 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. <u>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.</u>
22. FINANCIAL INFORMATION N/A - This is an academic research project. Is the statement of financial security the same as that considered in the existing water licence? <input type="checkbox"/> Yes <input type="checkbox"/> No Provide an updated statement of financial security. If the applicant is a business entity, provide a list of the officers of the company. If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.
23. STUDIES UNDERTAKEN TO DATE N/A 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.

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 **There will be no development.**

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

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. ANNUAL REPORTING - Provide details regarding the content of annual reports and a proposed outline or template of the annual report.

Annual report on research progress to NRI.

26. PROPOSED TERM OF LICENCE

On what date does the existing licence expire? _____

Indicate the proposed term of the renewal (maximum of 25 years): 3 years

Proposed date of renewal issuance: 05/2011 Proposed Expiry Date: 10/2014
(month/year) (month/year)

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

x Yes ☐ No If no, date expected _____

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

x Yes ☐ No If no, date expected _____

Updated security assessment (see Block 21)

x Yes ☐ No If no, date expected _____

Updated financial statement (see Block 22)

x Yes ☐ No If no, date expected _____

Compliance Assessment / Status Report (see Block 23)

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

x Yes ☐ No If no, date expected _____

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

x Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 CDN (Payee Receiver General for Canada)

x Yes ☐ No If no, date expected _____

28. SIGNATURE

I, ELIZABETH C. TURNER (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

2011-02-08
Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____