

**Hamlet of Gjoa Haven
Water Licence Renewal Application**

Submitted to the Nunavut Water Board

Aug 18, 2013

Submitted by

Shah Alam, P. Eng.

Municipal Planning Engineer,
CGS, Cambridge Bay, NU X0B 0C0
Ph: (867) 983-4156
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Aug 18, 2013

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
XOB 1L0

Attention: Phyllis Beaulieu, Manager of Licensing

RE: **Hamlet of Gjoa Haven Water Licence Renewal Application —Licence Number NWB-3GJO-0409**

Dear Ms. Beaulieu:

Please find the enclosed Water Licence Renewal Application for the Hamlet of Gjoa Haven. The Hamlet's current licence expired on January 31, 2009.

We are aware that a requirement of the Water Licence Renewal Application is the completion of a number of documents including the following:

- Operation and Maintenance Manual for Sewage and Solid Waste Operations
- Quality Assurance/Quality Control (QA/QC) plan for monitoring and management
- Spill Contingency Plan
- A & R plan for facilities being decommissioned
- Annual Reports
- Plan for modification, addition or alteration of facility or program

We request that the Nunavut Water Board grants this application approval with our Plan of Compliances and O & M manuals & Plan with the board as outlined in the General Conditions.


We are also requesting that the Nunavut Water Board give consideration to regulating the current sewage lagoon, wetland area as part of sewage and solid waste treatment facilities and the solid waste site inclusion to the Renewal Licence. Based on sampling completed in summer 2012 and July 2013, there is evidence to support that treatment of effluent occurs within wetland area as required in the water licence. Please refer to the O & M plan as attached with this renewal application.

We like update with the Board some information regarding these facilities operation: Construction drawings of new lagoon and Annual Reports for water and sewage waste from 2006 through 2012 has been updated with the Board. The A & R plan will be available on time once final completion date of new lagoon is determined. Extensive monitoring program for sewage & solid waste site and waste management program is in effect since last summer which includes operators training in monitoring facilities, signage, sampling and documents.

The Application fee of \$30.00 is not required here as it was submitted with another unsuccessful application in 2010 (Ref. NWB3GJO0409, June 24, 2010 and follow up Sep 7, 2011).

On behalf of the Hamlet of Gjoa Haven, we will provide any required documents to the Board upon requested.

Yours sincerely,

 Aug 18, 2013
(Shah Alam, P. Eng.)

Municipal Planning Engineer,
Community and Government Services,
Kitikmeot Region,
Cambridge Bay, NU



Application for Water Licence Renewal

Document Date: May 2011

Application Submission Date: 08/18/2013
Month/Day/Year

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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)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
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 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. Licensees applying for combined renewal / amendment are also referred to the 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: **NWB3GJO-0409**

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: **Hamlet of Gjoa Haven**

Address: **P.O. Box 200, Gjoa Haven, NU, X0B 1J0**

Phone: **867-360-7141**

Fax: **867-360-6309**

e-mail: **gioafinance@qiniq.com**

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

Name: **Shah Alam, P. Eng.**

Address: **Municipal Planning Engineer, Cambridge Bay, NU, XOB 0C0**

Phone: **867-983-4156**

Fax: **867-983-4124/ 4123**

e-mail: **salam@gov.nu.ca**

(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: _____

4. LOCATION OF UNDERTAKING

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

☒ Yes ☐ No

Project Extents

NW: Latitude: (**61 ° 05 ' 0 " N**)

Longitude: (**94 ° 00' 0 " W**)

NE: Latitude: (° ' " N)

Longitude: (° ' " W)

SE: Latitude: (° ' " N)

Longitude: (° ' " W)

SW: Latitude: (° ' " N)

Longitude: (° ' " W)

Camp Location(s) N/A

Latitude: (° ' " N)

Longitude: (° ' " 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.

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

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: _____ 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 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: [Hamlet of Gjoa Haven](#)

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.

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.

N/A

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"/> Recreational |
| <input checked="" type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Miscellaneous (describe below): |
| <input type="checkbox"/> Power | |

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 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: _____ | |

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): Swan Lake
(show location(s) on map)

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):__

Turbidity is slightly higher than is required by GCDWQ. Treatment required for turbidity and microbiological components such as E. Coli and Coli Form. Therefore, treatment included filtration and disinfection at the treatment plant before delivery to resident and user tanks.

The source has enough flow of water for the year round and DFO has concluded that source water is not likely to results to fish and fish habitat.

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: 62,000 m3 annually)

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: Annual quantity not exceeding 62,000 m³

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.): N/A

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

Describe the method(s) of extraction:

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 m³/day

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

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.

- ☒ Sewage
☒ Solid Waste
☒ Hazardous
☒ Bulky Items/Scrap Metal
☐ Animal Waste
☐ Other (describe): _____

- ☒ Waste oil
☒ Greywater
☐ Sludges
☐ Contaminated soil and/or water

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
Sewage	House sewage combined grey and black	Less than 98 m3/day	Detention lagoon	Natural treatment through BOD and wetland
Solid Waste	Residential, commercial municipal	40 m3/day	Composting & heaping	Composting and segregation
Hazardous	Battery, paint, switch, lights, glycol etc.	Not daily, occasionally	Containment and ship out	Collect in container place inside the cell and make ready for ship out.
Bulky items/ Scrap metal	Wood piece, door, window & house items, vehicle parts, fuel/ water/ sewage tank, plastic, cartons etc.	Not daily, time to time as required	Heaping & composting, burning on site, cover.	break into smaller pieces and on site pile.
Waste oil	Engine oil, trans. Oil, glycol, heating oil etc.	As required time to time	Containment to shipping out.	Collect in container and protect from spill out.

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:

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.

No noticeable impact to environment due to water use or sewage solid waste facility uses. But, benefit to the community in supply potable water, safe sewage disposal and discharge to ocean, proper storage of solid waste, metal dump and management of hazardous materials.

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.

N/A

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).

There is no known effect of the quality and quantity of flow of water or sewage effluent through Inuit owned land and final discharge into ocean. No effect on water intake from Swan Lake to fish or fish habitat.

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.

The Department of Community and Government Services has been in active consultation, meeting with the Hamlet, NWB and AANDC in taking management, training and operational plan for facilities in regards to

ensure in environmental and public safety in the event of an emergency situation.

21. SECURITY INFORMATION

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

☐ Yes ☐ No

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

☐ 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.

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.

No financial security involved in development and operation of these facilities. Therefore, this is not applicable.

22. FINANCIAL INFORMATION

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

☐ Yes ☐ No

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?

☒ Yes ☐ No

Provide a list of the officers of the company.

Gord Dinney - Senior Administrative Officer (SAO)

Dave Stockley – Director of Finance

Troy Beaulieu – Planning and Land Administrator

Jacob Keanik – Hamlet Forman

Adam Halluqtalik - Hamlet Operator

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

☐ Yes ☐ No

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

Not applicable for these facilities.

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.

Hamlet is working close with the Consultant hired by GN in compliance to the monitoring and operational plan, training and management of facilities in regards to issues identified by AAND inspector and regulatory bodies. Issues included in monitoring, signage and operation of sewage effluent, solid waste and hazardous materials and leachate effluent in accordance with NWB and CCME guidelines.

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? **New Sewage Lagoon in construction stage and expected in operation from next year summer.**

☐ Yes ☐ No

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

Construction of new Sewage lagoon

Proposed Start Date: May 2013 (month/year) Proposed Completion Date: Dec 2013 (month/year)

Operation of new Lagoon

Proposed Start Date: April 2014 (month/year) Proposed Completion Date: continue (month/year)

Closure of current Lagoon

Proposed Start Date: May 2014 (month/year) Proposed Completion Date: not yet (month/year)

Post - Closure

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

For each applicable phase of development indicate which season(s) activities occur. **N/A**

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

These are existing facilities and their operation as identified during the first completion of these facilities..

25. PROPOSED TERM OF LICENCE

On what date does the existing licence expire? January 31, 2009

Indicate the proposed term of the renewal (maximum of 25 years): 5 (Five) years

Requested date of renewal issuance: September, 2013 Requested Expiry Date: August 2018
(month/year) (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. [Use NWB standard Form for Annual Reporting](#)

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 follow up

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 ☐ No If no, date expected _____

The Application fee of \$30.00 is not required here as it was submitted with another unsuccessful application in 2010 (Ref. NWB3GJO0409, June 24, 2010 and follow up Sep 7, 2011).

On behalf of the Hamlet of Gjoa Haven, we will provide any required documents to the Board upon requested.

Yours sincerely,

 Aug 18, 2013
(Shah Alam, P. Eng.)

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