General Water Licence Application
(Application for a new Water Licence)

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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 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
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(9)		
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GENERAL WATER LICENCE APPLICATION
(APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: *Guide to Completing and Submitting a Water Licence Application for a New Licence* for more information about this application form.

LICENCE NO:
(for NWB use only)

1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)

Nunavut Nukkiksautiit Corp.
5300 Qulliq Court, 2nd floor
P.O. Box 1228
Iqaluit, NU X0A 0H0

Phone: 867.979.8400
Fax: _____
e-mail: nnc@qcorp.ca

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

Growler Energy
Suite 810, 100 New Gower Street
St. John's, NL, A1C 6K3
Attention: Pete Whelan

Phone: 709.765.4401
Fax: _____
e-mail: Pete.Whelan@GrowlerEnergy.com
(*Authorization letter attached*.)

3. NAME OF PROJECT (including the name of the project location)

Anuriqjuak Nukkiksautiit Project, near Sanikiluaq, NU

4. LOCATION OF UNDERTAKING

Project Extents

NW:	Latitude: (56° 31' 28" N)	Longitude: (79° 14' 40" W)
NE:	Latitude: (56° 32' 19" N)	Longitude: (79° 13' 14" W)
SE:	Latitude: (56° 29' 18" N)	Longitude: (79° 13' 52" W)
SW:	Latitude: (56° 30' 19" N)	Longitude: (79° 14' 48" W)

Camp Location(s)
N/A

5. MAP - Attach a topographical map, indicating the main components of the undertaking.

Anuriqjuak Nukkiksautiit Project Drawings
NTS Map Sheet No.: _____ Map Name: _____ Map Scale: _1:15,000_____

6. NATURE OF INTEREST IN THE LAND - 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: _____

X Commissioner's Land Use Authorization
Date (expected date) of issuance: _1 May 2023__ Date of expiry: _____

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

Name of entity(s) holding authorizations:
Nunavut Nukkiksautiit Corp.

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

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

☐ North Baffin
☐ South Baffin
☐ Akunniq
☐ Keewatin
X Sanikiluaq
☐ West Kitikmeot

Is a land use plan conformity determination required?

☐ Yes X No

If Yes, indicate date issued and attach copy _____
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.
NPC Letter issued July 21, 2022 (NPC Determination Letter #149782) is attached.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

X Yes ☐ No

If Yes, indicate date issued and attach copy __4 November 2022_____
If No, provide written confirmation from NIRB confirming that a screening determination is not required.
NIRB Screening Decision Report (14. NIRB Screening Decision Report 22XN052) is attached.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

An existing trail will be upgraded and extended to provide access to a site for wind turbine construction. The access road work will involve the construction of three permanent culvert additions to cross waterbodies.

Further details are given in the following attachments:
- *Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052)*
- *Anuriqjuak Nukkiksautiit Project Drawings*
- *Catchment Map Drawing*
- *Biophysical Impact Assessment , and two addendums to the assessment.*

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.
The location of the wind turbine and upgrading an existing trail was determined in consultation with the local community. An alternate access road was considered, however community members will benefit from continued use of the existing trail once upgraded.

Further details are given in the attached Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052).

11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.

☐ Industrial ☐ Agricultural
☐ Mining and Milling (includes exploration/drilling/exploration camps)
☐ Conservation
☐ Municipal (includes camps/lodges) ☐ Recreational
☐ Power X Miscellaneous (describe below):

This is an access road project with 3 culvert watercourse crossings.

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

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water License Application. Indicate which SIG(s) are applicable to your application.

☐ Hydrostatic Testing
☐ Tannery
☐ 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
X General Water Works
☐ Power

12. **WATER USE -** Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

☐ To obtain water for camp/ municipal purposes
☐ To obtain water for industrial purposes
X 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 AND QUALITY OF WATER INVOLVED -** For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):

As shown on the Anuriqjuak Nukkiksautiit Project Drawings, there are 3 watercourse crossings that will be constructed to facilitate an access road.

The watercourse crossings are on unnamed waterbodies and their locations are shown on Drawing 1121 and in the attachment "Catchment Map".

Describe the quality of the water source(s) and the available capacity:

Water quality and flow parameters at the watercourse crossing sources are as follows:
WC2
- *pH: 8.88*
- *Conductivity 1061 µS*
- *Temperature: 9.3°C*
- *Flow: 0.56 m³/s*
- *Average Depth: 6 cm*

WC3
- *pH: 8.65*
- *Conductivity 1195 µS*
- *Temperature: 9.2°C*
- *Flow: - m/s*
- *Average Depth: 12 cm*

WC4
- *pH: 8.83*
- *Conductivity 1430 µS*
- *Temperature: 10.3°C*
- *Flow: 0.27 m³/s*
- *Average Depth: 37 cm*

Additional details are provided in the attached Biophysical Impact Assessment. The watercourses to be crossed are WC2, WC3, and WC4.

Water capacity will not be affected by the construction of the culverts.

Provide the overall estimated quantity of water to be used: _____*None*_____ m^3/day

Provide the estimated quantity(s) of water to be used from each source:
_____*N/A*_____
_

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)
___*N/A*_____

Describe the method of extraction(s): ___*N/A*_____

Estimated quantity(s) of water returned to source(s) ___*N/A*_____ m^3/day

Describe the quality of water(s) returned to source(s): ___*N/A*_____

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

- ☐ Sewage
- X Solid Waste
- X Hazardous
- ☐ Bulky Items/Scrap Metal
- ☐ Animal Waste
- ☐ Other (describe): _ _____
- X Waste oil
- ☐ Greywater
- ☐ Sludges
- ☐ Contaminated soil and/or water

15. QUANTITY AND QUALITY OF WASTE INVOLVED – 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
Solid Waste	Combustible and non-combustible construction waste.	Unknown	None	Transported to Sanikiluaq and disposed of at community landfill.
Waste Oil	Waste Oil	< 100 L	None	Transported to Sanikiluaq and sent to compliant waste management facility
Hazardous Waste	Hydraulic fluid	< 100 L	None	Hazardous waste will be disposed of in accordance with existing regulations. If no hazardous waste disposal is available in the

				community, hazardous waste will be removed and disposed.

16. OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: *Request for Review (determination if application required to Fish and Fish Habitat Protection Program)*
Administering Agency: *Department of Fisheries and Oceans*
Project Activity: *Culvert installation*
Date (expected date) of issuance: May 2023 Date of expiry: _____

No additional authorizations related to the road construction/culvert installation specifically are required. Other authorizations will be sought for the wind turbine(s) and transmission line(s).

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.

DFO guidance for culvert installation and protection of fish habitat has been incorporated into the culvert designs where possible. Installation of culverts will negate the requirement to divert or infill the existing waterbodies and will maintain flow.

Please see the attached Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052) and mitigation measures detailed in the Biophysical Impact Assessment for further details. Impacts to water are expected to be minimal.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

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.

There are no other users that have been identified.

19. INUIT WATER RIGHTS

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 are none.

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.

Please see Tables 5 and 6 in the attached Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052), and the attached NNC Consultation Record for this information.

21. SECURITY INFORMATION

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.

The access road will become part of the municipal road system and is not therefore subject to closure or reclamation. Written confirmation will be provided when available.

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.
Please see NC Letter of Financial Responsibility for Water Crossing attached.

If the applicant is a business entity, provide a list of the officers of the company.
The officers are Harry Flaherty, Peter Keenainak and S. Mathew Alainga

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.
Please see NNC Incorporation Document attached.

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

Wind measurements have been collected since 2017.
Desktop feasibility studies were undertaken in 2020-2021.
Environmental baseline studies were undertaken in 2019-2022.
Project Proposal (NNC Anuriqjuak Nukkiksautiit Project - Project Proposal 22XN052)
Biophysical Impact Assessment, and two addendums to the assessment.

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

Construction
Proposed Start Date: _July 2023_____ (month/year) Proposed Completion Date: ___Sept 2024_____ (month/year)

Operation
Proposed Start Date: _Sept 2024_____ (month/year) Proposed Completion Date: __Aug 2049_____ (month/year)

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

Construction
☐ Winter X Spring X Summer X Fall ☐ All season

Operation
☐ Winter ☐ Spring ☐ Summer ☐ Fall X All season

Closure
☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Post - Closure
☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Note: The construction of the access road is anticipated to be completed from July-September 2023. Transmission line poles will be constructed in tandem. Wind turbine construction will be completed from June-September 2024. Operation dates are provided for the wind turbine(s), however refurbishment at the end of regular lifetime and maintenance in perpetuity is anticipated, thus is not subject to closure. The access road will become part of the municipal road system and is not therefore subject to closure.

25. PROPOSED TERM OF LICENCE

Number of years (maximum of 25 years): ____25_____ years

Requested Date of Issuance: __6/2023_____ (month/year) Requested Expiry Date: ___6/2048_____ (month/year)

(The requested date of 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 – 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.

The Standardized Form will be used as requested.

27. CHECKLIST – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

X Yes ☐ No If no, date expected _____

Written confirmation from the NIRB confirming that NIRB's requirements regarding development

impact assessment have been addressed.

X Yes ☐ No If no, date expected _____

Completed General Water Licence Application form.

X Yes ☐ No If no, date expected _____

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

X Yes ☐ No If no, date expected _____

English Summary of Application.

X Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of 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 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 license.

X Yes ☐ No If no, date expected _____

28. SIGNATURE

Heather Shilton	Director	HShilton	April 20, 2023
Name (Print)	**Title (Print)**	**Signature**	**Date**