

Land and Water Boards of the Mackenzie Valley



LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the [Mackenzie Valley Land Use Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:		Sahtu Land and Water Board:	
	Wek'èezhìi Land and Water Board:	X	Gwich'in Land and Water Board:	

To complete this Form, please refer to the MVLWB [Guide to the Land Use Permitting Process](#) (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. An application package checklist is provided in the Guide. Review the following MVLWB guidance for formatting your Application Package:

- [Document Submission Standards](#)
- [Standard Outline for Management Plans](#)

If applicable, provide the existing or current Land Use Permit file number:	W2014F0002-Snare Winter Road, W2018Q0003 Falls Borrow Location, W2019Q0003 Strutt Lake Winter Road and Quarries, Snare Forks Till Pits		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		
	Water Licence – in a federal area:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Matthew Miller		
Position:	Senior Environmental Licensing Specialist		
Company Name:	Northwest Territories Power Corporation (NTPC)		
Mailing Address:	4 Capital Drive		
Community:	Hay River	Telephone:	
Prov/Terr:	NT	Email:	MMiller@ntpc.com
Postal Code:	X0E 1G2	Other:	

2. NAME AND CONTACT INFORMATION – APPLICANT’S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories in your Application Package.

Use an “X” to indicate this information is the same as Item 1 above:			X
Name:			
Position:			
Company Name:			
Mailing Address:			
Community:			
Prov/Terr:		Telephone:	
Postal Code:		Email:	
Field Supervisor:		Other:	

3. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information. An additional table should be added for each contractor and sub-contractor.

Name:			
Position:			
Company Name:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		Other:	

X	Use an “X” to indicate that contractor and/or subcontractor information is not available at this time.
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4. LOCATION OF ACTIVITIES

Use the grey fields below to provide or reference the following information:

Traditional Place Name:

Maps and Geographic Information System (GIS) Data: Include a map in your Application Package identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the MVLWB [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	63° 16' 20.4175"	Maximum latitude:	63° 32' 2.0415"
Minimum longitude:	115° 54' 27.5377"	Maximum longitude:	116° 29' 07.7543"

NTS Map Sheet No.: Provide the map sheet number:

Land Types: Use an “X” to indicate the type(s) of the land on which the activities are proposed:

Free Hold/ Private:	X	Commissioner’s/ Territorial Lands:	X	Federal Land:		Municipal Land:	
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5. ELIGIBILITY

Refer to section 18 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which one applies:

18(a)(i):		18(a)(ii):		18(a)(iii):		18(b):	X
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6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

- Full list of all land tenure agreements that provide eligibility for this LUP application is provided as an attachment in the application

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which permitting criteria apply:

Type A				Type B				Type C	
4(a)(i):	X	4(b)(i):		5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):	X	4(b)(ii):	X	5(a)(ii):		5(b)(ii):			
4(a)(iii):	X	4(b)(iii):	X	5(a)(iii):					
4(a)(iv):	X	4(b)(iv):	X	5(a)(iv):					
4(a)(v):	X			5(a)(v):					
				5(a)(vi):					

8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. Include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m³/day)). Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

The Snare Hydro facility and all activities under the permit are outlined in detail each of the attached management plans.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

Temporary camps are defined in detail in the attached management plans.

10. ROADS AND ACCESSES

Provide detailed information about the construction, location, and decommissioning of any roads and accesses.

Use an “X” to indicate if this is to be a pioneered road or access:	Yes		Use an “X” to indicate if the route has been laid out or ground-truthed:	Yes	X
	No	X		No	

NTPC plans to reconstruct the Snare Winter Road (WR) from Snare Forks to the Wekweètì Winter Road, NT linking the facility to Yellowknife via NWT Highway #3. The Snare WR follows the same historical alignment of previous years, so relatively little brushing is required. The road does not cross any water courses and is 12.5km of portage winter road. The start point of the WR is a temporary laydown/marshalling area located at the southwest corner of Snare Forks, and the end point is a temporary laydown area located at the Wekweètì winter road junction.

Three additional winter roads are planned to be used intermittently throughout the operation of the facility as required and are included in this application:

- Strutt Lake WR (8.1 km) connecting to three borrow locations on the east side of Strutt Lake. This winter road is currently authorized under Land Use Permit, which expires on December 18, 2024 and is constructed when crushing is completed at Strutt Lake Pits every 4-8 years.
- The Big Spruce Lake WR 1 (17.8 km) connecting Snare rapids to the Side Dams, and Snare 5B Spillway. This route is entirely on Big Spruce Lake and is constructed every 10-20 years when major maintenance work is required at 5B or Side Dams. There is also a Big Spruce Lake WR 2 route that connects the side dams on Big Spruce Lake to the Snare site road using a couple portages and local inland lakes. The Big Spruce Lake WR 2 route would be used if ice conditions on Big Spruce Lake were not sufficient for WR construction.
- The 5B Bridge route (1.1 km) allowing for continued movement of equipment over the winter months if the 5B bridge every had any issues which impeded travel over the bridge in winter months. This is a contingency route only and would only be used in emergency situations.

The all season site road at Snare Hydro is an existing route that has been in operation since the facility was constructed in 1948. For details on construction, operation and decommissioning of the winter roads, please refer to the attached *Snare Hydroelectric Facility Land Use Operations and Maintenance Plan*.

11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

Waste Management Plan: Include a Waste Management Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed waste management activities in the grey fields provided below. A template for the Plan can be found in the MVLWB [Guidelines for Developing a Waste Management Plan](#).

Waste Type	Management Method(s)
Garbage:	Please see attached <i>Snare Hydroelectric Facility Waste Management Plan</i>
Sewage (Sanitary and greywater):	Please see attached <i>Snare Hydroelectric Facility Waste Management Plan</i>
Brush and trees:	Please see attached <i>Snare Hydroelectric Facility Waste Management Plan</i>
Overburden (Organic soils, waste material, etc.):	Please see attached <i>Snare Hydroelectric Facility Waste Management Plan</i>
Other (describe):	Please see attached <i>Snare Hydroelectric Facility Waste Management Plan</i>

Off-site Disposal: If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
	Please refer to attached <i>Snare Hydroelectric Facility Land Use Operations and Maintenance Plan</i>		

13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy-tank)	Proposed storage or staging location(s)
Diesel:	Please refer to attached <i>Snare Hydroelectric Facility Waste Management Plan</i>			
Gasoline:				
Aviation Fuel:				
Propane:				
Other: (describe)				

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

See attached <i>Snare Hydroelectric Facility Waste Management Plan</i>
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15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, provide relevant details in the grey field provided below. An example of this Plan can be found in the INAC [Guidelines for Spill Contingency Planning](#).

As per Fuel Transfer Safe Work Practice. See attached Waste Management Plan See attached <i>Snare Hydroelectric Facility Spill Contingency Plan</i>

16. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

Start Date:	January 1, 2022	Completion Date:	January 1, 2027

Term of Permit Requested:	5 years
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17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

Temporary camps, temporary fuel storage and the expansion of the Snare Winter Road laydown are the only scopes of work which have not completed in the past.

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D of the [Guide](#), identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed.

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
ABIOTIC COMPONENTS		
Land		
Soil contamination	X	Please refer to attached <i>Snare Hydroelectric Facilities Spill Contingency Plan</i> for spill prevention and response measures that will be implemented.
Soil compaction		
Destabilization/erosion	X	Please refer to attached <i>Snare Hydroelectric Facility Erosion and Sediment Control Plan</i> for erosion control measures and slope stabilisation measures that will be implemented to avoid sedimentation and erosion. Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Change in soil structure	X	Avoid operation of machinery when soils are highly saturated (primarily during freshet) will be avoided where possible. Where unavoidable, suitable ground equipment will be used to prevent unnecessary soil damage. Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Inability to support vegetation		
Other		
Water		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality	X	Use the Snare Hydro Spill Management and Erosion and Sediment Control Plans to apply suitable control measures to avoid adverse effects to waterbodies, as well as pollution to surface water. Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Temperature changes		
Other		
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		Please refer to attached <i>Snare Hydroelectric Facility Erosion and Sediment Control Plan</i>
Drainage pattern changes		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures and the attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> and
Temperature changes		
Changes in water quality	X	Please refer to attached <i>Snare Hydroelectric Facility Spill Management Plan</i> and <i>Snare Hydroelectric Facility Erosion and Sediment Control Plan</i> to apply suitable control measures to avoid adverse effects to waterbodies, as well as pollution to surface water. Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality	X	Dust suppression techniques will be applied using the GNWT Guideline for Dust Suppression and <i>the Snare Hydro Erosion and Sediment Control Plan</i> to minimise dust emissions on vegetation and habitat outside of right of way. Please refer to attached <i>Snare Hydroelectric Facility</i>

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
		<i>Vegetation And Wildlife Management Monitoring Plan for potential impacts and further mitigation measures.</i>
Harm to living things		
Increased greenhouse gases		
Other	X	Limit idling of vehicles
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation	X	Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Loss of Species at Risk or may-be-at-risk plants		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Change in species composition		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Introduction of non-native (invasive) species		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests	X	Before major vegetation clearing and/or quarrying activities begin, a wildlife survey will be completed to verify the absence of migratory bird nests, bear dens and other wildlife Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures
Loss or removal of keystone species and/or Species at Risk habitat		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Fragmentation of wildlife corridor		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Direct injury or mortality	X	Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures
Effects on population abundance		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Change in species diversity		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Effects on wildlife health (toxins, metals, etc.)		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Changes to migratory movement patterns	X	Roads will be constructed within the same alignment of the previously-constructed roads. Jump-outs will be incorporated into the banks. Vehicles will travel in convoy to minimize disturbance. Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i> for potential impacts and further mitigation measures.
Changes to predator-prey relationships		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Human-wildlife conflicts		Please refer to attached <i>Snare Hydroelectric Facility Vegetation And Wildlife Management Monitoring Plan</i>
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations		Hunting, trapping, and fishing will be prohibited by all project staff and contractors.
Effects on traditional land use, subsistence, and harvesting rights		
Other		
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)		Tłı̨chǫ Government is a partner in the Snare Hydro Facility through the Dogrib Power Corporation which owns Snare Cascades and the economic benefits that go with it. TG is a close partner in the operation of Snare Cascades and the whole Snare Facility. Various projects that occur at Snare Hydro provide economic opportunities for Tłı̨chǫ owned and many other businesses in the NWT.

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		Snare Hydro is the main source of renewable energy for the North Slave Electrical System . The facility includes four hydro generation stations that provide the majority of power to the North Slave communities of Yellowknife, Behchokò, Dettah and N'Dilo along with the power generated by the Bluefish Hydroelectric Facility and Jackfish when needed.
Impairment of the recreational or traditional uses of the land or water		
Impairment of the aesthetic quality of the land or water		
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)	X	Hunting, trapping, and fishing will be prohibited by all project staff and contractors.
Other		

18. CLOSURE AND RECLAMATION

Use the grey field below to provide or reference the following information:

Closure and Reclamation Plan: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#).

Closure Cost Estimate: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact Board staff, prior to applying, to determine which closure-cost-estimate template is most suited to the activities being applied for. Guidance is provided in section 2.2 of the MVLWB/INAC/GNWT [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If the Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

See attached *Snare Hydroelectric Facility Quarry and Winter Roads Reclamation Plan*

19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

Engagement: Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the MVLWB [Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits](#), and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to [Information for Proponents on MVLWB's Engagement Requirements](#).

Land Use Plans: Contact the applicable Land Use Planning Board or the Tłjchq Government to discuss conformity with the relevant land use plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

Traditional (Environmental) Knowledge (TEK/TK): Provision of TEK/TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TEK/TK.

Studies Undertaken to Date: List any relevant studies that support the proposed activities and include them in your Application Package.

Please refer to attached *Snare Hydro Land Use- Engagement Plan, Snare Hydro Land Use- Engagement Log* and Snare Hydro Lands Letter and attachments.


20. FEES

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	\$150
Land-use fees (for federal areas only):	\$
Total Fees:	\$

21. SIGNATURE

Matthew Miller	Senior Environmental Licensing Specialist
Applicant’s Name (print) or Company Name	Position (print)

	November 12, 2021
Signature	Date

Review the application package checklist provided in the Guide, and submit completed applications to the Regulatory Manager or Executive Director identified on the “Contact Us” pages of the respective Land and Water Board (www.mvlwb.com, www.wlwb.ca, www.slwb.com, www.glwb.com).