



December 19, 2023

DISTRIBUTION LIST

Renewal of Land Use Permit W2016J0008 – Tundra Ecosystem Research Station, Daring Lake

The Department of Environment and Climate Change (ECC) is applying for a renewal from the Wek'èezhì Land and Water Board of the above referenced land use permit for the Tundra Ecosystem Research Station (TERS) located at Daring Lake, NT. The current permit expired as of November 3rd, 2023; a renewal would render it valid until November 2028. Presently, a storage authorization is in place until a new land use permit can be granted.

The station supports scientific researchers from ECC and outside universities and a Science and Culture Camp for high school students throughout the NWT.

TERS is a state-of-the-art facility that utilizes current technologies to minimize its impact on the environment. This includes the use of solar power, high energy efficient appliances, propane toilet and solar powered electric fence. The camp has been inspected twice since the most recent permit issuance and seven times over the life of the project. A small oil spill was reported in 2019 that has since been cleaned up and cleared with the Land Use Inspector. Overall, the land use has been commended for operating and maintaining the camp to a high standard.

Prior to this application, the scope of work for operating and maintaining this research camp including fuel storage, and other associated camp activities have remained unchanged since the Preliminary Screening dated November 6, 2009. It was deemed that there was no likelihood that TERS would have a significant adverse impact on the environment or would be a cause of public concern.

The following TERS LUP applications and storage authorizations have since been approved abiding by the 2009 Preliminary Screening:

- (2009) LUP Application (W2009J006), granted November 11, 2009.
- (2014) Two-year permit extension for W2009J0006, granted October 29, 2014
- (2016) LUP renewal application (W2016J0008), granted November 4, 2016
- (2021) Two-year permit extension for W2016J0008, granted November 17, 2021
- (2023) Storage Authorization for W2016J0008, granted November 4, 2023

For the 2023 Land Use Permit Application, TERS has revised one component of operations regarding fuel volume capacity. This revision includes increasing the maximum fuel volume capacity to 28,800 liters in fuel drums to allow for further fuel storage on site in secondary containment fuel berms. Please refer to the impact mitigation table in the application form and see the attached Spill Contingency Plan for further information.

I have attached the following 2023 Land Use Permit application materials for review:

- 2023 Land Use Permit Application Form
- Spill Contingency Plan Version 4.0.
- Waste Management Plan Version 3.0.
- Project Details Plan.
- Engagement Plan Version 2.0.
- Engagement Summary & Record.

Further materials can be found on the Wek'èezhì Land and Water Board public registry at: <https://wlwb.ca/registry/W2016J0008>

Please direct any comments or concerns with respect to the permit renewal to Colin Modeste-Burgin, TERS Camp Manager, at Colin_Modeste-Burgin@gov.nt.ca

Sincerely,



Heather Sayine-Crawford
Director
Wildlife Management Division

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 LWB [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 LWB 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:	W2016J0008		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		N/A
	Water Licence – in a federal area:		N/A

1. NAME AND CONTACT INFORMATION – APPLICANT

Project Name:	Tundra Ecosystem Research Station (TERS)		
Applicant's Name:	Heather Sayine-Crawford		
Position:	Director, Wildlife Management Division		
Company Name:	Environment and Climate Change, Government of the Northwest Territories		
Mailing Address:	PO Box 1320		
Community:	Yellowknife	Telephone:	867-767-9237 ext.53230
Prov/Terr:	NT	Email:	Heather_Sayine-Crawford@gov.nt.ca
Postal Code:	X1A 2L9	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:			
Name:	X		
Position:	X		
Company Name:	X		
Mailing Address:	X		
Community:	X		
Prov/Terr:	X	Telephone:	X
Postal Code:	X	Email:	X
Field Supervisor:	X	Other:	X

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

	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 (See attached Project Details Plan – GNWT-TERS)

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

Traditional Place Name:	Yamba Lake (Yabah ti)
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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 LWB [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	64°52’0.05”	Maximum latitude:	64°52’ 4.0”
Minimum longitude:	111°25’ 29.9”	Maximum longitude:	111° 35’ 41”

NTS Map Sheet No.: Provide the map sheet number:	76D/13
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GIS Data: Use an “X” to indicate if GIS data is attached.	Attached:		Not Available:	X
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Land Types: Use an “X” to indicate the type(s) of the land on which the activities are proposed:

Free Hold/ Private:		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.).

The Government of the Northwest Territories has operated the Tundra Ecosystem Research Station at Daring Lake since 1994. Reserve status was granted for the GNWT in 1994 by INAC (GNWT Reserve 76D/13-1).

Research permits are held for all TERS users who carry out environmental and other research-based activities from the Station. Wildlife Research Permits are issued by Wildlife Management Division, ECC, GNWT and NWT Research permits from the Aurora Research Institute.

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):		4(b)(i):		5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):		4(b)(ii):	X	5(a)(ii):		5(b)(ii):			
4(a)(iii):		4(b)(iii):		5(a)(iii):	X				
4(a)(iv):		4(b)(iv):		5(a)(iv):					
4(a)(v):				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. For each and all proposed water uses, 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 purpose of the Tundra Ecosystem Research Station (TERS) is to promote and support scientific research in the sub-arctic, in addition to providing educational programs for northern residents. The Station was designed as a state-of-the-art facility incorporating the latest technologies and best practices in power generation (i.e., solar and wind), wildlife deterrents and waste management. The camp compound encompasses approximately 0.5 hectares of land.

Research and monitoring activities focus on the following priority areas: climate change, impacts of industrial development, wildlife disease and contaminants, species at risk, and ecosystem processes. Research activities generally take place within 5 km of the research station and contribute to pan-territorial monitoring programs such as: small mammal, arctic hare, raptor, breeding birds, water quality, and water quantity. Researchers from ECC also participate in the International Tundra Experiment, a circumpolar study examining the effects of climate change on plant phenology, growth, and reproduction. In addition, there are several university research groups that use TERS facilities on an ongoing basis from Queens, Carlton, Trent, and Wilfrid Laurier universities.

The GNWT runs the Tundra Science and Culture Camp at the Daring Lake facility. This is a 10-day cross-cultural environmental education program for high school students throughout the NWT.

The Tundra Ecosystem Research Station is a small camp that has been designed to be environmentally friendly. It is comprised of 10 Weather haven tents. The number of people on site varies between 2 and 35, with an average of approximately 6 people in camp at any time from May to September.

TERS is located at Daring Lake, which is a water source required for domestic use. Water is pumped up to a 1000 L (1 m³) holding tank in the summer and brought up in 5-gallon buckets in the spring. The estimated water consumption is 0.25 m³ - 0.50 m³ per day throughout the season.

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.

The Tundra Ecosystem Research Station is a small camp that has been designed to be environmentally friendly. It is comprised of 10 Weather haven tents. The number of people on site varies between 2 and 35, with an average of approximately 6 people in camp at any one time. Person days range from 700 – 900 during the season of operation from May to September.

Use of solar power as the main power source, use of an incinerating toilet, grey-water sump, etc. and responsible storage of fuels all result in minimal short-term impacts on the environment in the Daring Lake area.

An electric bear fence encircles the living area of the research station to discourage human/animal interactions and all station users are trained on bear safety prior to or upon arrival at TERS.

Wildlife monitoring has shown that caribou do not avoid the Daring Lake area in response to the station. Large carnivores (wolverine, grizzly bears) are regularly sighted in the vicinity of the camp but have never interacted in any way with the camp (i.e., they do not exhibit behaviors that indicate they are attracted or habituated to the camp). The use of boardwalks in the fenced-in compound and on the tundra (near research sites) in high use areas are designed to minimize damage to local vegetation.

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	
	No	X		No	X

N/A

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 LWB [Guidelines for Developing a Waste Management Plan](#).

Waste Type	Management Method(s)
Garbage:	See attached Waste Management Plan
Sewage (Sanitary and greywater):	See attached Waste Management Plan
Brush and trees:	N/A
Overburden (Organic soils, waste material, etc.):	N/A
Other (describe):	N/A

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.

(Letters from Yellowknife Solid Waste Facility and KBL located in Waste Management Plan)

12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
4	Polaris / Skidoo snowmobiles	550cc	Transport field personnel and equipment
4	Yamaha outboard motor	4 stroke (15hp, 20 hp and 25hp) 2 stroke (20 hp)	Transport field personnel and equipment, data collection
1	Gas water pump	5 hp	Filling water tank
2	Gas generators	4500 watt and 2500 watt	Recharging batteries
1	Yamaha ATV	450cc	Transport of equipment

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:	35	205L 7200 L Total	drum	Fuel storage area with berm
Gasoline:	35	205L 7200L Total	drum	Fuel storage area with berm
Aviation Fuel:	35	205L 7200L Total	drum	Fuel storage area with berm
Jet A/B:	35	205L 7200L Total	drum	Fuel storage area w/ berm
Propane:	20	45kg 900 kg total	Tank	Within camp compound

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel is transferred by use of manual fuel pumps from drums into jerry cans they are filled inside the fuel berm (Secondary containment), fuel spill pads will also be used to catch any drips.

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](#).

See attached Spill Contingency Plan.

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:	November 2023	Completion Date:	November 2028
Activities occur during the spring and summer, from the beginning of May through to the beginning of September, annually.			
Term of Permit Requested:	Five - years		

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.

Prior to this application, the scope of work for operating and maintaining this research camp including fuel storage, and other associated camp activities have remained unchanged since the Preliminary Screening dated November 6, 2009. It was deemed that there was no likelihood that TERS would have a significant adverse impact on the environment or would be a cause of public concern.

The following TERS LUP applications and storage authorizations have since been approved abiding by the 2009 Preliminary Screening:

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For the 2023 Land Use Permit Application, TERS has revised one component of operations regarding fuel volume capacity. This revision includes increasing the maximum fuel volume capacity to 28,800 liters in fuel drums to allow for further fuel storage on site in secondary containment fuel berms. Please refer to the impact mitigation table below and see the attached Spill Contingency Plan for further information.

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. Use landscape orientation if preferred.

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	Soil may be impacted in the case of a spill of petroleum products stored on-site. An approved spill contingency plan will be followed, and an appropriate spill kit will be easily accessible, fully stocked, and identifiable on-site at all times.
Soil compaction		
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		**please see spill contingency plan
Water		
Groundwater		
Water table alteration		Ground water quality may be impacted in the case of a spill of petroleum products stored on-site. An approved spill contingency plan will be followed, and an appropriate spill kit will be easily accessible, fully stocked, and identifiable on-site at all times.
Infiltration changes		
Changes in water quality	X	
Temperature changes		
Other		
		** please see spill contingency plan
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		Surface water quality may be impacted in the case of a spill of petroleum products stored on-site. An approved spill contingency plan will be followed, and an appropriate spill kit will be easily accessible, fully stocked, and identifiable on-site at all times.
Drainage pattern changes		
Temperature changes		
Changes in water quality	X	

Wetland impairment		All hazardous materials will be stored at a distance from waterbodies as per the land use permit conditions.
Changes to aquatic habitat (see Biotic section below)		
Other		
		** Please see spill contingency plan
Air		
Changes in air quality		Waste materials produced at TERS will be transported off-site and dropped of at an appropriate and approved waste disposal facility. Waste incinerated on site would
Harm to living things		
Increased greenhouse gases		

Other	X	only include paper, cardboard, and untreated wood wastes. ** Please see Waste Management Plan.
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation	X	The footprint of the camp and walking trails / boardwalks out to research locations results in some minimal vegetation loss. Research at the station relies on maintaining intact ecosystems so we aim to have very little disturbance
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation	X	The footprint of the camp and walking trails / boardwalks out to research locations results in some compaction of vegetation. Research at the station relies on maintaining intact ecosystems so we aim to have very little disturbance
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests	X	The footprint of the camp results in a very minimal amount of direct habitat loss. Research at the station relies on maintaining intact ecosystems so we aim to have very little disturbance
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		
Effects on population abundance		
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts	X	It is possible to have human-wildlife conflict but in our 25+ years of operations we have not had any serious Incidents. The station also uses an electric fence that surrounds camp. Waste storage until approved disposal method is followed according to attached waste management plan.
Other		
Aquatic Habitat		
Breeding disturbances		water quality may be impacted in the case of a spill of petroleum products stored on-site. An approved spill contingency plan will be followed, and an appropriate
Change in species diversity		spill kit will be easily accessible, fully stocked, and
Effects on health (toxins, metals, sediment, etc.)	X	identifiable on-site at all times.
Changes to migratory movement patterns		

Changes to predator-prey relationships		Deposit of grey water may affect aquatic environment.
Effects on population abundance		Waste will be deposited appropriately, according to the
Change in species diversity		Land use permit conditions.
Other	X	Please see waste management plan.
CULTURAL COMPONENTS		

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>
Wildlife Harvesting		
Loss or reduction in game species populations		
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)		
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		
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)		
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 LWB/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 LWB/GNWT/CIRNAC [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.

The TERS is a long-term facility; there are no foreseeable plans for closure. Back hauls are used to regularly remove unused items, and/or garbage. Should the facility close, all buildings would be dismantled and removed from the site. The grey- water pit would be filled in and restored to a natural state.

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 LWB [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 Tłı̨ch̨ Government for assistance in interpreting the requirements of the relevant land use plan(s). Include a Land Use Plan Conformity Table, or if applicable, written confirmation of conformity from the Tłı̨ch̨ Government, in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

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

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

The Tundra Ecosystem Research Station has facilitated research over the past 28 years contributing to the body of knowledge related to climate change, vegetation, water, and wildlife interactions in the southern arctic ecozone. More than 70 academic articles have been published as a result of research conducted at TERS and many research collaborations are ongoing. The Tundra Science and Culture Camp received a Premier's Award for Collaboration in 2011 and has continued to deliver an important cross-cultural program to northern students in partnership with Tłjchq Elders and the Tłjchq cultural team.

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:	\$

If fees are submitted separately, indicate how and when they will be delivered to the Board's office.

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21. SIGNATURE

Heather Sayine-Crawford, Director	Wildlife Management Division Environment and Climate Change Government of the Northwest Territories
Applicant's Name (print) or Company Name	Position (print)

	December 19, 2023
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).



December 19, 2023

DISTRIBUTION LIST

Project Details Plan for Renewal of Land Use Permit W2016J0008 – Tundra Ecosystem Research Station, Daring Lake

Please accept this letter and attachment as the Project Details Plan submission for section 4 of the Land Use Permit Application Package - Location of Activities, associated with the renewal of the above referenced Land Use Permit for the Tundra Ecosystem Research Station (TERS) located at Daring Lake.

The permit is currently expired as of November 3, 2023. A renewal would render it valid until November 2028. The activities regarding location and camp layout at the research station have remained the same as was originally permitted. Currently a Storage Authorization is in place until a new Land Use Permit can be granted to support continuing land use activities at TERS.

Throughout the lifetime of the permit, land use activities include fuel storage, camp operations and ecological field research, occurring primarily over the summer months. The figures in the attachment show the location of the station, building layout, and fuel storage areas. The area occupied by the station and associated land use is approximately 100m by 50m (or less than 1 hectare).

Please direct any comments or concerns with respect to the permit renewal to Colin Modeste-Burgin, TERS Camp Manager, at Colin_Modeste-Burgin@gov.nt.ca

Sincerely,

Heather Sayine-Crawford
Director
Wildlife Management Division

Attachments:

- ✓ Land Use Permit Application Form
- ✓ Spill Contingency Plan – v.4.0
- ✓ Waste Management Plan – v.3.0
- ✓ **Project Details Plan**
- ✓ Engagement Plan v.2.0
- ✓ Engagement Summary & Record



Project Details Plan

Tundra Ecosystem Research Station

Daring Lake, NWT

Prepared for: 2023 Land Use Permit Application

GNWT-ECC-Wildlife Division

TERS- Daring Lake, NWT

W2016J0008

Nov 2023

Revision History

Version #	Date	Section	Revision
1	Nov 2023	General	- Added Cover Letter - Added Cover Page - Added Revision History and Conformity Tables - Added Maps

Conformity Table – WLWB and Public Review

ID #	Date	Source	Topic
1	Oct 24, 2023	WLWB Recommendations	Project Details
Comment/ Recommendation			
GNWT-ECC - TERS - LUP Application - Deemed Incomplete - Oct 24 23.pdf (mvlwb.ca) Comment: Section 4 of the application states that a map is to be included as part of the application package however no map was included. Please include a regional overview map and a detailed map with operational features. Both maps should include base map features and project structures and activities. Recommendation: Please include regional overview map and a detailed map with operational features and project structures and activities.			
Actions Taken		Included maps and project details plan – Colin Modeste-Burgin	
2	Oct 24, 2023	W2023J0005 – WLWB - Application Letter – Deemed incomplete	General
Comment/ Recommendation			
GNWT-ECC - TERS - LUP Application - Deemed Incomplete - Oct 24 23.pdf (mvlwb.ca) Comment: Each management plan should be accompanied by a cover letter and dated. also, a revision history and conformity table. Recommendation: Add cover letter, Revision history table, conformity table			
Actions Taken		Added/ Revised recommended sections – Colin Modeste-Burgin	

Figure 1 – The location of the Tundra Ecosystem Research Station (TERS) **(A)** in relation to Yellowknife and other NWT communities and **(B)** in relation to Yamba and Daring Lake. Coordinates of the station are: 64° 52' 0.05" to 64° 52' 4.0" Latitude and 111° 25' 29.9" to 111° 35' 41" Longitude.

A) TERS location in relation to Yellowknife and other NWT communities.



B) TERS location in relation to Yamba Lake and Daring Lake.

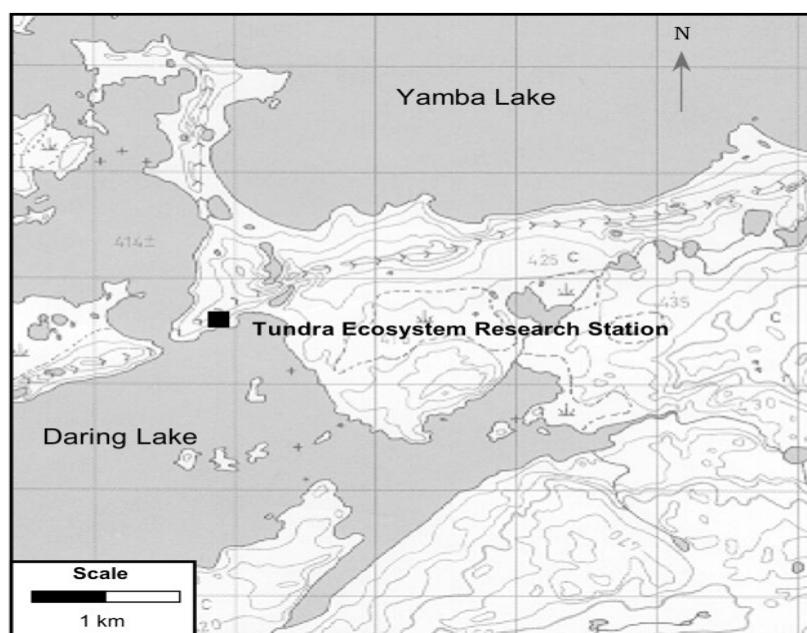
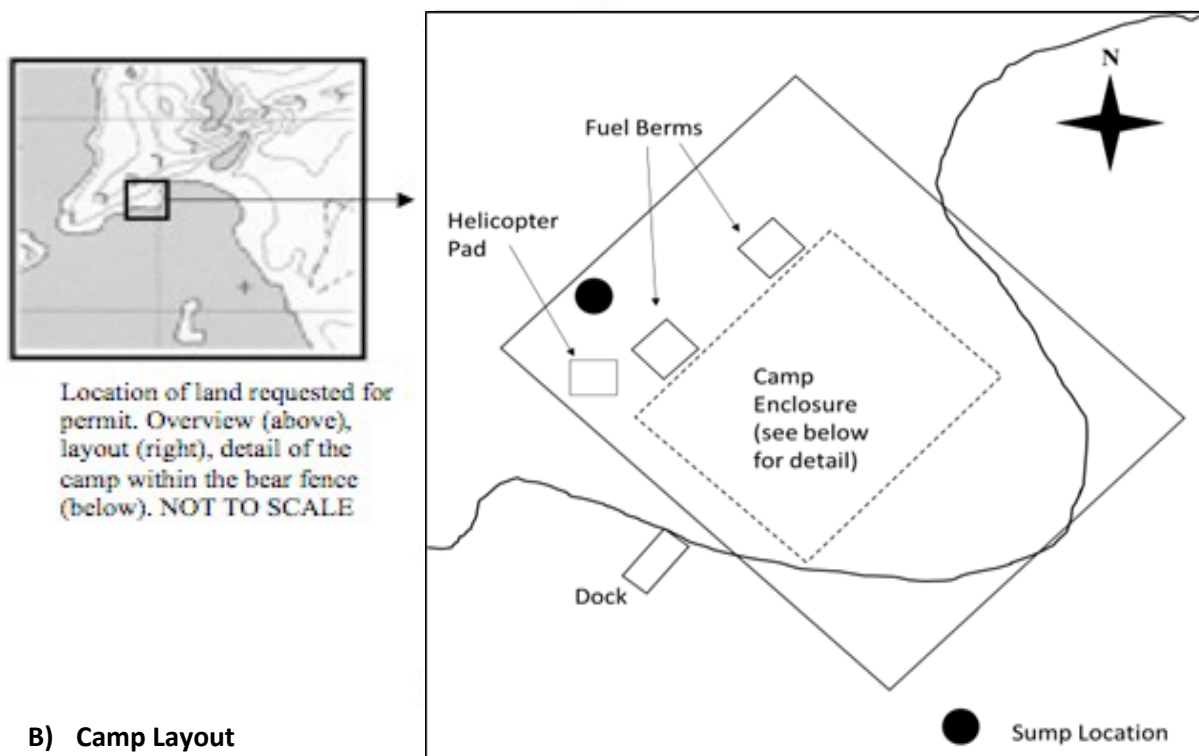


Figure 2 – Drawing depicting **(A)** the placement of the area of the current land use permit as well as **(B)** detail of the camp layout. Please note that neither A nor B are drawn to scale.

A) Placement of the area of the current land use permit.



B) Camp Layout

