



WILDLIFE RESEARCH PERMIT APPLICATION FORM

If you are researching, observing, and/or handling wildlife in the Northwest Territories (NWT) you need to have the proper permits and licences. This applies to everyone, including government agencies, and is intended to avoid harm to NWT natural, social and cultural environments.

Your application must include:

- ✓ Cover letter, which includes:
 - Project title
 - One-line summary
 - Wildlife species that will be studied, observed or manipulated
 - Location of study area
 - Signature and contact information
- ✓ Completed permit application
- ✓ Signed recommendation form(s)
- ✓ Supporting notes and correspondence detailing consultation process

For further instructions and how to submit your application, go to: www.ecc.gov.nt.ca. If more space is required, please attach additional pages.

FORMULAIRE DE DEMANDE DE LICENCE AUTORISANT LA RECHERCHE SUR LA FAUNE

Si vous faites des recherches sur la faune, de l'observation ou de la manipulation d'animaux de la faune aux Territoires du Nord-Ouest (TNO), vous devez détenir les licences et les permis appropriés. Cette mesure s'applique à tout le monde, y compris aux organismes gouvernementaux, et vise à éviter les dommages qui pourraient être causés aux milieux naturels, sociaux et culturels des TNO.

Votre demande doit comprendre :

- ✓ Une lettre de présentation indiquant :
 - Le titre du projet;
 - Un résumé d'une ligne;
 - Les espèces sauvages qui seront étudiées, observées ou manipulées;
 - L'emplacement de la zone d'étude;
 - Votre signature et vos coordonnées.
- ✓ La demande de licence dûment remplie.
- ✓ Le(s) formulaire(s) de recommandation signé(s).
- ✓ Les pièces justificatives et la correspondance décrivant en détail le processus de consultation.

Pour obtenir de plus amples renseignements sur la façon de présenter votre demande, accédez au site Web suivant : www.ecc.gov.nt.ca/fr. Si vous avez besoin de plus d'espace, veuillez ajouter les pages nécessaires.

Check One / Cochez une seule réponse : New Project / Nouveau projet Ongoing Project / Projet en cours

Address: (Include name, phone number and e-mail)

Adresse : (Inclure votre nom, numéro de téléphone et adresse courriel)

Stefan Goodman, 867-444-6760, stefan_goodman@gov.nt.ca
ECC, GNWT
3803 Bretzlaff Drive, Yellowknife, NT X1A 2P9

Sponsor(s): (Organizations supporting your work)

Commanditaire(s) : (organismes qui soutiennent votre travail)

Environment and Climate Change, GNWT

Funding Source(s): (Organizations providing financial help to work)

Source(s) de financement : (organismes qui vous apportent une aide financière)

Environment and Climate Change, GNWT
Infrastructure, GNWT

Additional Licences Required:

Licences supplémentaires requises :

Parks Canada - Research and Collection Permit for the area over TDN

Project Title: (10 words or less)

Titre du projet : (10 mots ou moins)

Muskox Surveys North Slave Region March 2024

Rationale: (100 words or less)

Explication : (100 mots ou moins)

In the early 1900s, muskoxen in NWT and Nunavut on the Canadian mainland were at very low numbers (Fournier and Gunn 1998). They have since resumed their historic range and numbers have increased; however, in some areas (e.g., Thelon Sanctuary) numbers declined substantially after an initial increase. As part of monitoring North Slave regional muskox abundance and distribution, two surveys are proposed for February-March 2024: the first would be a large regional survey north of tree-line similar to one carried out in late winter 2018, and the second would be a smaller pilot survey primarily south of the tree-line. Local information indicates that muskox abundance has increased in the Lutsel K'e area south of the tree-line since 2000. The pooled point estimate (both taiga and tundra strata combined) was 8,098 muskoxen. The 95% Confidence Interval (CI) was 5,230 to 12,540 muskoxen. The pooled density estimate was 101.6 muskoxen/1000 km² (95% CI: 66.5-157 muskoxen/1000 km². CV=22.4%. (D. Cluff, unpublished data.). The survey area was large at 81,200 km²

References:

Fournier, B. and A. Gunn. 1998. Muskox numbers and distribution in the Northwest Territories, 1997. Department of Resources, Wildlife, and Economic Development, Government of the Northwest Territories, Yellowknife, Northwest Territories. File Report No. 121.

Time Period:

Durée : **February 2024 to March 2025**

Location and Nearest Community: (Provide latitude and longitude if applicable)

Emplacement et collectivité la plus près : (indiquer la latitude et la longitude, le cas échéant)

Lutsel K'e is the nearest community. The proposed study areas are on the attached map. Yellowknife will be a home base for a couple days for the lines north east of town.

Species Studied:

Espèces étudiées : **Muskox; note: other large mammals observed will be recorded.**

Project Leader:

Chef de projet : **Stefan Goodman ECC - large survey north of tree-line, Jan Adamczewski ECC- smaller survey south of tree-line.**

Project Personnel: (Include people who would actually do the work in the NWT, volunteers included)

Participants au projet : (inscrire les personnes qui accompliraient le travail aux TNO, y compris les bénévoles)

**Judy Williams ECC, other ECC staff to be determined; community observers from Lutsel K'e and Yellowknife.
Dean Cluff (consultant).**

Objectives: (Please use point form)

Objectifs : (veuillez utiliser le style télégraphique)

1. The larger muskox survey north of tree-line is to provide an updated muskox population estimate for the same survey area used in 2018 and expanded to include the Lockhart All Season Road study area.
2. The larger survey results will determine whether muskox distribution and density have changed since 2018, and whether current harvest rates are sustainable.
3. The smaller survey is to test survey methods for muskoxen that can be used south of tree-line, where sightability of muskoxen is much reduced (smaller strip-width).
4. The smaller survey will also obtain high-resolution photos of all muskoxen found, and test whether a number of sex and age classes can be identified, following survey methods used by similar aircraft (Supercub or Husky) on muskox surveys in Alaska.
5. In addition, the combination of the larger and smaller survey areas will provide additional information on muskox abundance and distribution in the region as the total survey area will be greater than in 2018.

Methods: (100 words or less) (Cite references, if applicable)

Méthodes : (100 mots ou moins) (veuillez citer vos références, le cas échéant)

The larger muskox survey will use aerial fixed-wing strip-transect methods that are well established in the NWT (see Fournier and Gunn 1998). Two small fixed-wing survey aircraft (Bushhawk, Cessna 185, or equivalent) with a pilot and observer/recorder in the front and two observers in the back will be used. Four observers from Lutsel K'e will be requested to participate. Ground coverage will be approximately 20% and strip-width on either side of the aircraft will be 1km. Methods will be consistent with the 2018 muskox survey in this area. Distance sampling methods will be used, which means that the distance of each group of muskoxen (and moose) from the survey line will be recorded and used in determining an estimate. The smaller survey area will be flown with a Husky aircraft (one pilot, one observer/photographer) and a smaller strip width of 500m on either side of the aircraft. Distance sampling methods will also be used, and photos of each group will be taken to try to classify calves, yearlings, 2-year-old males and females, and 3-plus-year-old males and females, using methods similar to those of Jones (2015).

Reference: Jones, P. 2015 Nelson Island muskox survey results. Department of Fish and Game, Division of Wildlife Conservation, Northwest, Bethel, Alaska.

Current Consultation: *(List all contacts you have already consulted; append all recommendation forms to submission)*
Consultation actuelle : *(veuillez dresser la liste de toutes les personnes que vous avez déjà consultées et annexer à votre demande tous les formulaires de recommandation)*

Wildlife Research Permit application will be sent to:

- Yellowknives Dene First Nation (YKDFN)
- Tlicho Government (TG)
- North Slave Métis Alliance (NSMA)
- Lutsel K'e Dene First Nation (LKDFN)
- Wek' èezhì Renewable Resources Board (as a Wildlife Management Proposal) (WRRB)

Future Community Consultation: *(List anticipated consultation activities, e.g. posters, presentations, meetings, letters)*

Consultations de la collectivité à venir : *(veuillez dresser la liste de toutes les activités de consultation prévues, c'est-à-dire les affiches, les présentations, les rencontres, les lettres, etc.)*

Report on survey results will be sent to:

- Yellowknives Dene First Nation
- Tlicho Government
- North Slave Metis Alliance
- Lutsel K'e Dene First Nation
- Wek' èezhì Renewable Resources Board

Opportunities for Local Participation:

Possibilités de participation locale :

When based in Lutsel K'e, we will ask for 4 community observers from Lutsel K'e to assist with the larger survey.

When based in Yellowknife, we will ask for 1 NSMA, 1 Tlicho, and 2 YKDFN observers to assist with the larger survey.

Management or Recovery Plans: *(If your project is part of accepted wildlife management plans or recovery plans, list them as appropriate)*
Plans de gestion ou de rétablissement : *(si votre projet fait partie de plans de gestion de la faune approuvés ou de plans de rétablissement, veuillez en dresser la liste, s'il y a lieu)*

GNWT ENR will be developing a muskox management strategy for the NWT and a muskox status report for the NWT.

Follow-up Report / Rapport de suivi

Check One / Cochez une seule réponse : Previously Submitted / Envoyé précédemment Attached / En pièce jointe Not Applicable / Sans objet

DECLARATION

I declare that the information provided on this form is correct. I understand that it is an offence to give false or misleading information.

All personal information contained on this form is collected under the authority of the *Wildlife Licences and Permits Regulations* Section 11.(3) and is used for the purposes of assessing and processing your application request. If you have any questions in relation to the information collected on this form please contact the Information Coordinator by phone at 867-767-9237 ext. 53219, by email at WildlifeCoordinator@gov.nt.ca, or by mail at PO Box 1320, Yellowknife NT X1A 2L9.

DÉCLARATION

Je déclare que les renseignements fournis dans le présent formulaire sont exacts. Je comprends que toute fausse déclaration ou déclaration trompeuse constitue une infraction.

Tous les renseignements personnels contenus dans le présent formulaire sont recueillis conformément au paragraphe 11(3) du *Règlement sur les permis et licences relatifs à la faune*, et sont utilisés aux fins de traitement et d'évaluation de votre demande. Pour toute question concernant les renseignements recueillis dans le présent formulaire, communiquez avec le coordonnateur de l'information par téléphone, au 867-767-9237, poste 53219, par courriel, à l'adresse WildlifeCoordinator@gov.nt.ca, ou par courrier, au C. P. 1320, Yellowknife NT X1A 2L9.

X

Applicant Signature / Signature du demandeur

19/12/2023

Date (DD/MM/YYYY) (JJ-MM-AAAA)