



Department of Environment  
Ministère de l'Environnement

Pursuant to the Wildlife Act/En vertu de la Loi Sur la Faune

WL

2021-004

**WILDLIFE RESEARCH PERMIT**  
**FAUNE-PERMIS DE RECHERCHE**

Name/Nom

Markus Dyck

Date Issued/émis le

2021-01-08

Organization/Organisation

Department of Environment

**This permit is valid**

**Ce permit est valide**

Address

P.O.Box 209

From/Du 2021-04-01

To/Au 2023-06-29

City/Ville

Igloolik

Phone No./No. de telephone

(867) 934-2181

Prov/Terr

NU

Postal Code Postal

X0A 0L0

**Permit Conditions**

As per application: Project similar to previous study in Lancaseter sound and Baffin bay but no immobilization and handling of polar bears; Will extract small DNA from skin and hair using a biopsy dart; 2021-2023, biopsy darting on LS sea-ice and smaller islands; Conduct inland transects 10-15 km in areas suggested by locals; Use 2 helicopters, each team covering different parts; Once a bear is located, a small sample (<5mm) to be taken using a biopsy dart from a helicopter; Darts to fall off and be retrieved after darting without handling a bear; For each bear, GPS location, bear condition, estimated age/ sex and group size will be recorded; Some will be rebiopsied in the same field season since they are unmarked; Samples from biopsied bears analyzed to determine genetic identity and sex; Tissue samples collected from previous studies in 1990 and 1997 will be included in the study; Will not biopsy cubs, too small and injury possible; Have HTO observers in the field so local knowledge can be applied directly. Collection of up to 600 samples per field season, with possible export. Must submit report at end of study.

Is hereby authorised to conduct research as approved by the Superintendent of Wildlife.

Est autorisé par le présent à mener une recherche telle qu'approuvée par le Superintendant de la faune.

Permit Holder Signature/Titulaire du Permis

12jan/2021

Superintendent of Wildlife/ Surintendant le Faune