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CANADIAN WILDLIFE SERVICE – NORTHERN REGION

APPLICATION FOR A NATIONAL WILDLIFE AREA PERMIT OR A MIGRATORY BIRD SANCTUARY PERMIT

Personal information collected as part of the permitting process is protected under the Privacy Act.

IMPORTANT: Please consult the document “**Instruction Sheet: Applying for a National Wildlife Area Permit or Migratory Bird Sanctuary Permit in Nunavut, Northwest Territories, or Yukon**” when filling out this application. Incomplete, illegible, or unsigned application forms will be returned and will result in a delay in the review of a permit application. If a section is not applicable, please write or select N/A. Attach additional pages if necessary.

PART 1: APPLICANT INFORMATION

SECTION 1.1: Permit Request Information

1.1.1 Type of request

- ☒ New project/activity
☐ Continuing project/activity for which a permit has expired
Expired NWA and/or MBS Permit number(s):
☐ Amendment to an existing permit
Existing NWA and/or MBS Permit number(s):
☐ Extension (contact CWS office prior to filling out application)
Existing NWA and/or MBS Permit number(s):

1.1.2 Type of permit

- ☒ National Wildlife Area Permit
☒ Migratory Bird Sanctuary Permit

1.1.3 Territory

- ☐ Northwest Territories
☒ Nunavut
☐ Yukon

1.1.4 Period of Permit Requested

- ☒ 1 year
☐ 2 year
☐ 3 year
☐ N/A (amendment)

SECTION 1.2: Applicant contact information

Applicant surname:
Chevallier

Applicant given name:
Clément

Position/title:
Acting Protected Areas Head Northern Region (Eastern)

Name of the organization that the applicant is from :
ECCC - CWS

Authorized secondary contact:
Charlie Nakashuk, Jessica Kassar

Mailing address of applicant

Street or P.O. Box:
301-933 Mivvik Street

City: Iqaluit	Province/Territory, Country: NU	Postal Code: X0A 0H0
Telephone: 867-975-2933	Email: clement.chevallier@ec.gc.ca	Fax:
Mailing address of organization (if different from above)		
Street or P.O. Box:		
City:	Province/Territory, Country:	Postal Code:

PART 2: PROJECT SCOPE AND DESCRIPTION

SECTION 2.1: Project Information

2.1.1 Project title

Northern Fulmar Colony Surveys and NWA Management

2.1.2 Project duration (anticipated)

Start (yyyy/mm/dd):

2024/07/01

End (yyyy/mm/dd):

2024/08/31

2.1.3 Project description

Surveying: The northern fulmar is a ubiquitous seabird found throughout the eastern Canadian Arctic. Evidence suggests that colonies along eastern Baffin Island have declined in size by 75% over 4 decades. We need to assess whether the same trends are happening with colonies in the high Arctic. We will survey two northern Fulmar colonies in Hobhouse Inlet and Cape Vera by helicopter and drone.

Management and monitoring: To better manage the Nunavut Iqaluit National Wildlife Area, we would like to install remote cameras and automatic recording unit to monitor the biodiversity present in the area and more precisely estimate the specific area used by the caribou herd when crossing the pass. Additionally, Nauyasvaat (Seymour Island) Migratory Bird Sanctuary has been created to protect one of the largest known colonies of Ivory Gull. Nevertheless, no recent record of presence exists on the island. We would like to install remote cameras and automatic recording units in Nauyasvaat to improve our capacity to detect the presence of nesting Ivory Gull on the island.

We will have a base in Resolute Bay and travel to each location on day trips. The whole project should not take more than 6-7 days but it will depend on weather.

2.1.4 Methods

1) Northern Fulmar Colonies – Two one day trip by helicopter. As in 2022 and 2023, we will fly to a colony, and follow alongside of the cliffs via helicopter moving a speed of ~30Km/h with a horizontal distance of 250 m at a height just below the top of each cliff. The passengers will take overlapping photographs using digital cameras that will be stitched together afterwards, and the birds will be counted using imagery software. Depending on weather conditions, the helicopter will make up to 2-4 passes to ensure we have a full data set. Additional passes will be made to video the entire cliff using a high-resolution video camera. This method will be assessed afterwards to determine suitability and whether it is a suitable option. The drone will be operated from multiple locations on the ground.

Imagery will then be assessed to determine whether it is a suitable replacement or supplement to the photo survey which may have limitations in areas of dark shadows such as the ravines where the birds are often also nesting.

2) Protected areas management activities – Two one day trip by helicopter To better manage the Nanuit Itillinga National Wildlife Area, we would like to install remote cameras and automatic recording unit to monitor the biodiversity present in the area and more precisely estimate the abundance of caribou and the specific area used by the herd when crossing the pass. Installed in a line with motion detection and time-lapse setting picture will help collect important data for the protected area management plan. The automatic recording unit will also help investigate insects' abundance, anthropogenic disturbance, as well as bird song. We would install 4 to 6 camera/ARUs along the north side of the valley by helicopter. It should take 30 minutes per stop to install them. Finally, eDNA (water samples) will be collected to study species richness of the area. Naujavaat (Seymour Island) Migratory Bird Sanctuary has been created to protect one of the largest know colony of the rare and elusive Ivory Gull. Nevertheless, no recent record of presence of sign of reproduction of the island exist. We would like to install remote cameras and automatic recording unit to improve our capacity to detect the presence of nesting Ivory Gull on the island. Cameras combined to the recording unit will allow us to identify species use of the area. Finally, eDNA (water samples) will be collected to study species richness of the area.

We expect all work to be completed in 4-6 days depending on weather. If the colony surveys are successful and the data is adequate, we do not anticipate returning to these sites for another 5 years.

2.1.5 Activities within the protected area related to project proposal:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Scientific research | <input type="checkbox"/> Ground surveys | <input type="checkbox"/> Storage of fuel |
| <input type="checkbox"/> Tourism, non-commercial | <input checked="" type="checkbox"/> Aerial surveys | <input type="checkbox"/> Camp construction |
| <input type="checkbox"/> Tourism, commercial | <input type="checkbox"/> Winter road | <input checked="" type="checkbox"/> Use of firearms |
| <input checked="" type="checkbox"/> Use of boats | <input type="checkbox"/> Commercial harvest | <input type="checkbox"/> Use of explosives |
| <input checked="" type="checkbox"/> Use of aircraft | <input type="checkbox"/> Cruise ship | <input type="checkbox"/> Seismic exploration |
| <input type="checkbox"/> Use of off-road vehicles | <input type="checkbox"/> Drilling activities | <input type="checkbox"/> Mining activities |
| <input type="checkbox"/> Specimen collection | <input checked="" type="checkbox"/> Research equipment installation | <input type="checkbox"/> Other (please specify): |
| <input type="checkbox"/> Agricultural activities | | |

2.1.6 Are you applying to take, kill, capture or disturb migratory birds, their parts, nests or eggs?

☒ No ☐ Yes

If yes, you also have to complete and submit an *Application for a Migratory Bird Scientific Permit*. Refer to the Instruction Sheet for further information.

SECTION 2.2: Project Location and Duration

2.2.1 Protected areas visited

Protected Area Name	Geographic Coordinates	Proposed Visitation Dates (start date – end date)
Cape Vera	76 15'N 89 45'W	July 1, 2024 to August 31, 2024
Hobhouse Inlet	74 28'N 86 50'W	July 1, 2024 to August 31, 2024
Nanuit Itillinga NWA	75 44'N, 98 39'W	July 1, 2024 to August 31, 2024
Naujavaat (Seymour Island) MBS	76 49'N, 101 16'W	July 1, 2024 to August 31, 2024

2.2.2. Status of land <input checked="" type="checkbox"/> Federal Crown <input type="checkbox"/> Territorial Crown <input type="checkbox"/> Inuit Owned Lands <input type="checkbox"/> Other Indigenous Private Lands RIA/Indigenous Organization authorization attached? <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A If required but not attached, please provide an explanation.		
SECTION 2.3: Operational and Environmental Considerations		
2.3.1 Environmental impacts and mitigation measures Environmental impacts of this project should be minimal. We plan to complete surveys of the colonies in 5-6 days, weather permitting, by helicopter from Resolute. Fuel caches will be located outside of protected areas. The survey will be carried out by two to three persons, who will arrive in Resolute by aircraft, fly to the colonies by helicopter, conduct surveys (less than 2 hours per colony), and then return to Resolute. Weather permitting drone use. Visiting Nanuit Itillinga from Resolute should have minimal impact on wildlife as it will likely be a day trip to install cameras and ARUs.		
2.3.2 Will you be storing fuel in the NWA or MBS? <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes Details on fuel storage: There will be a fuel cache at the Nanuit Itillinga cabin of 4 jet fuel drums (205L each) and another fuel cache of the same quantity at Cape Vera.		
2.3.3 List of equipment to be used		
Equipment	Size/Amount	Proposed Use
Twin Otter	1	Set up fuel caches at cape vera and nanuit itillinga
Helicopter (Bell 206L or similar)	1	Aerial surveys of North Fulmar colonies
DJI Mavic Drones	2	Opportunistic aerial surveys of NOFU
2.3.4 Waste Disposal		
Type of Waste	Approximate amount produced	Proposed Disposal Method

NA		

2.3.5 Do you plan to carry firearms?
☐ No ☒ Yes

Explanation:
 If travelling on foot, staff will carry a shotgun for protection from polar bears.

SECTION 2.4: Potential Adverse Effects on Wildlife

2.4.1 Species at risk
 Polar bears, Peary caribou may be encountered but we do not expect to adversely impact them in any way.
 Ivory gulls may be seen on Seymour Island (Nauyasvat) but they will not be handled.

2.4.2 Disturbance and/or potential adverse effects on wildlife
 There may be some disturbance by the helicopter or drone however it will be very short-term.

2.4.3 Mitigation measures and risk management
 During colony surveys, we will maintain distances that have been demonstrated to minimize disturbance while still allowing accurate counts to be obtained. The flight path will be planned to minimize the amount of time spent in the protected areas while enabling a complete survey of the relevant colonies. All surveys will be completed by helicopter, and we do not plan to land at the colonies. If landing is required, the area will be observed first to ensure that no bears, caribou, etc are in the immediate vicinity and the helicopter will land away from nesting areas, to the extent that is feasible. Drone surveys will be weather dependent and conducted at distances that will minimize wildlife disturbance.

2.4.4 Measures to avoid encounters with dangerous wildlife
 We do not anticipate any encounters with dangerous wildlife, as surveys will be conducted from a helicopter. If landing is required for some reason, we will first assess the area for the presence of dangerous wildlife, and crew will have a marine magnum shotgun.

SECTION 2.5: Nominees

List individuals covered by the application to be included as permit nominees (individuals who will carry out the activities authorized under the permit).

Name	Organization	Position/Title
Charlie Nakashuk	ECCC-CWS	
Lisa Pirie	ECCC-CWS	

Clement Chevallier	ECCC-CWS	
Jessica Kassar	ECCC-CWS	
Twin otter pilot	TBD	
Helicopter pilot	TBD	

PART 3: CONSULTATION AND COMMUNITY INVOLVEMENT

Representative name:

Name of group represented:

Address:

Phone/Fax:

How contacted, and date:

Response received? ☐ Yes ☐ No (If yes, attach response letter or email)

Participating? ☐ Yes ☐ No

If yes, how?

List relevant attachments (please include all mailed out consultation packages and responses):

Representative name:

Name of group represented:

Address:

Phone/Fax:

How contacted, and date:

Response received? ☐ Yes ☐ No (If yes, attach response letter or email)

Participating? ☐ Yes ☐ No

If yes, how?

List relevant attachments (please include all mailed out consultation packages and responses):

Representative name:

Name of group represented:

Address:

Phone/Fax:

How contacted, and date:

Response received? ☐ Yes ☐ No (If yes, attach response letter or email)

Participating? ☐ Yes ☐ No

If yes, how?

List relevant attachments (please include all mailed out consultation packages and responses):

Representative name:

Name of group represented:

Address:

Phone/Fax:

How contacted, and date:

Response received? ☐ Yes ☐ No (If yes, attach response letter or email)

Participating? ☐ Yes ☐ No

If yes, how?

List relevant attachments (please include all mailed out consultation packages and responses):

IMPORTATION NOTE

Incomplete applications will not be considered. Attach with the duly completed form any documents deemed relevant to the application (screening decision reports from territorial review boards, site maps, photographs, copy of other relevant permits issued by another authority, consultation records and materials, detailed description of the project methods, etc.).

Environment and Climate Change Canada may request additional information or seek clarification before issuing or denying a permit.

PART 4: ATTESTATION AND SIGNATURE

I, ____ (print name) attest that I have the ability and knowledge to conduct the permitted activities and certify that:

- I am 18 years of age or older;
- all information submitted in this application is accurate and has been completed to the best of my knowledge;
- I may not commence any activities that are the subject matter of this application before a valid permit is in my possession;
- I, and the nominees, have the ability and knowledge to safely conduct the permitted activities and agree to abide by the terms and conditions of the permit; and
- I understand that, in order to legally conduct the activities authorized by my permit, I may need to obtain in advance additional federal, provincial, territorial, municipal, or Indigenous permits or authorizations.

SIGNATURE OF APPLICANT: _____ **DATE:** _____
(yyyy/mm/dd)

Submit complete application form to:

Canadian Wildlife Service – Northern Region

Email: CWSPermitNorth-PermisNordSCF@ec.gc.ca

Fax 1-867-975-4645

Mailing Address :

Canadian Wildlife Service

P.O. Box 1870

Iqaluit, NU X0A 0H0