Project Dashboard

Muskox (Ovibos moschatus) distribution and abundance of Central Mainland, Nunavut (MX11) (149527)

Proposal Status: Conformity Determination Issued

Project Overview

Type of application: **New**

Proponent name:	Lisa Marie
Company:	

Schedule:

Start Date:	2021-07-15
End Date:	2021-09-15
Operation Type:	Seasonal

Project Description:
This project aim to provide new scientific information on the muskox abundance and distribution of muskox in the management zone MX-11, to be able to review the current Total Allowable Harvest. In 2015, new muskox management units were established in Nunavut to represent muskox population boundaries. The management units MX-11 represents now three old harvest zones; MX-13, MX-14, MX-15, and part of MX-16 and MX-19. Current harvesting rate for the muskox management units MX-11 is based on muskox numbers estimated in 2013 from the west part and old surveys results, which result to 7,500 adult muskoxen. Although this number is the best available information, it does not represent accurately the muskox distribution and abundance of MX-11. To do so, we are planning to conduct an aerial survey of MX-11. The area will be flow at up to 20% coverage, with transect lines spaced 8 to 12 km apart. The transect line will be surveyed at a speed of 160 km/h and an altitude of 150 m. Observers will record number of muskox and GPS location. This project will aim to provide new scientific information on the abundance and distribution of muskox in MX-11 to be able to review the Total Allowable Harvest.

Personnel:

Persons:	7
Days:	20

Project Map

List of all project geometries:

ID	Geometry	Location Name
7744	polygon	New project geometry
7745	polygon	New project geometry
7746	polygon	New project geometry

Planning Regions:
Qikiqtani
Kitikmeot

Affected Areas and Land Types
Inuit Owned Surface Lands
Municipal
Extablished National or Territorial Park
Settlement Area
Keewatin Planning Region
Thelon Game Sanctuary

Project Land Use and Authorizations

Project Land Use
Scientific Research
Licensing Agencies
CWS: Scientific permit under the Migratory Bird Regulations
GN-DOE: Wildlife Research Permit
Other Licensing Requirements
No data found.

Material Use

Equipment

Type	Quantity	Size	Use
n/a	0	0	0

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Aviation fuel	0	0	Gallons	Fueling of the aircraft will be done mainly in Kugluktuk and Cambridge Bay. Pending in-kind support, landing and refueling might take place at TMAC and Sabina. No fuel cache will be done for this project.

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
n/a	0	0	Gallons	n/a

Water Consumption

Daily Amount (m^3)	Retrieval Method	Retrieval Location
0		

Waste and Impacts

Environmental Impacts

The muskox survey will start in mid-July and survey of the QMGS will take place in early August. We will be flying at approximately 150m above the ground with an airspeed of approximately 160kms/hour. This could have an small impact on local wildlife as the aircraft flies overhead, but the wildlife will not be distrubed any further once the area would have been surveyed. In the sanctuary, the survey there should be completed between 1 and 2 full days (depending on weather). The percentage of coverage will be adjusted to known muskox distribution, keeping the number of km flown low and the spacing between transect lines wider, where possible, to limit disturbance. In addition, the timing of the survey has been picked to minimize interference with the peak of the bird breading season. No landing in the Sanctuary will limit to zero the conflict with wildlife.

Waste Management

Waste Type	Quantity Generated	Treatement Method	Disposal Method
No data found.			