



## **NIRB Uuktuutinga Ihivriughikhamut #125892**

### **Marine Habitat Use of Thick-billed Murres**

<b>Uuktuutinga Qanurittuq:</b>	New
<b>Havaap Qanurittunia:</b>	Scientific Research
<b>Uuktuutinga Ublua:</b>	3/7/2024 10:02:47 AM
<b>Period of operation:</b>	from 2024-07-20 to 2024-08-31
<b>Havauhikhaq Ikayuqtinga:</b>	Grant Gilchrist Environment and Climate Change Canada 1125 Colonel By Drive Ottawa Ontario K1S 5B6 Canada Hivayautit Nampanga:: (613) 998-7364, Kayumiktukkut Nampanga::

## Tukhiannaqtunik havaariyaumayumik uqauhiyun

Uiviititut: L'intensification récente des activités de développement des ressources devrait accroître le trafic maritime dans les régions marines de l'est de l'Arctique canadien. Cependant, il n'existe pas suffisamment d'informations pour évaluer correctement les impacts écologiques potentiels des voies de navigation ouvertes toute l'année sur la faune marine. Notre objectif est de déterminer les modèles de répartition et d'abondance du Guillemot de Brünnich, dans le but d'identifier les habitats marins clés. Nous étudions les variations saisonnières et annuelles de l'utilisation de l'habitat marin dans plusieurs colonies du Nunavut (cap Graham Moore, île Bylot). En association avec cette recherche, nous examinons comment la variation du comportement de recherche de nourriture pourrait influencer la physiologie et le succès reproducteur des individus. Ce travail établira une base de référence sur l'utilisation de l'habitat marin à partir de laquelle les impacts potentiels futurs du développement des ressources sur les oiseaux marins pourront être évalués.

[illegible]

Personnel on site: 4  
Days on site: 12  
Total Person days: 48  
Operations Phase: from 2024-07-20 to 2024-08-31

# Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiyainnit nuna
Field Camp Location	Camp	Inuit Owned Surface Lands	The Cape Graham Moore thick-billed murre colony is important to the community of Pond Inlet for egg collections. Our activities do not overlap with their harvest.	We do not know of nearby archaeological sites, however if one were to be discovered we would notify the community and QIA.	The closest community is Pond Inlet, across the channel. The camp site and colony we work with are near, but lie outside of Sirmilik National Park.
Cape Hay Colony to survey	Sampling sites	Crown	This colony has not been surveyed in many years.	We are unaware of any archeological sites of value at this colony.	This is located within Sirmilik National Park, and the closest community is Pond Inlet.

## Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Mittimatalik	Judah Innualuk	Mittimatalik HTO	2024-02-13
Mittimatalik	Julia Prokopick	Asungasungaata Area Co-management Committee	2022-06-01

# Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Imaligiyyit Katimayit	Approval without a license. Obtained the last 3 years, waiting on decision for 2024.	Applied, Decision Pending		
Environment and Climate Change Canada	Animal Use Protocol. Obtained the last 3 years, renewal pending.	Applied, Decision Pending		
Qikiqtani Inuit Katimayit	Permit QX-2202	Active	2022-03-22	2024-08-30
Nunavut Kavamanga, Avatiliriyikkut	Permit WL-2022- 024, amendment applied for to include Cape Hay colony surveys (pending)	Active	2022-03-22	2024-08-30
Kaanatami Huradjat Munariniq	Banding permit (10892)	Active	2022-05-09	2024-12-31
Pulaarviit Kaanata	Application to work at Sirmilik National Park to conduct Cape Hay survey of thick- billed murre colony. Submitted on Feb 28, 2024.	Applied, Decision Pending		

## Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	We will be travelling to and from our camp by helicopter	
Land	We will only be travelling by foot while on the land. There are no motorized vehicles.	

## Project accomodation types

Temporary Camp

## Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Helicopter	1	Bell 206 L	6 flights - 2 take crew and gear in, 2 resupply and crew change over mid-season, 2 take crew and gear out
Drone	1	Mavik Pro 3	Survey thick-billed murre colony to determine colony size

### Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Aviation fuel	fuel	1	45	45	Gallons	Fuel for helicopter flight time to survey Cape Hay and Cape Graham Moore thick-billed murre colonies

### Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
1	Snow in shaded areas, places into blue barrels and melted for drinking, washing dishes, etc.	Snow is collected in shaded areas within 1 Km of our camp.

# Iqqakuq

## Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Camp	Ikulalaaqtun iqqakuuvaluin	6 garbage bags	Incineration at high temperatures	Ash removed and brought to Pond Inlet for disposal.
Camp	Qirnarivyaktuq imaq	5L/day	Placed in sump at least 100m from water bodies	Backfilled to match landscape.
Camp	Ikulalimanngittun iqqakuuvaluin	3 garbage bags	Flown back to Pond Inlet for disposal at dump.	Stored in garbage bags in camp. Removed when we leave.
Camp	Anaagun (inuin anaaguin)	10L/day	In a sump at least 100m from water bodies (river, lake, etc).	Backfilled to match contours of the land

### Avatiliriniqmut Ayurhautingit:

Given that we aim to study birds in their natural environment, we aim to minimize the impact of our presence and activities on the landscape/environment. We ensure we keep a clean camp and remove all our equipment/materials when we complete the work and leave for the season. Our largest impacts are likely our grey water and human sewage outputs. We ensure that we do not deposit these things anywhere near possible water sources to ensure there is no contamination, and we back fill these sumps to match the landscape. We only run our generator when it is necessary to charge our GPS units for bird tracking and to charge our radios for safety communication, thus reducing noise generated from our camp. Our tents will only be up for about 12 days so they should have minimal impact on surrounding vegetation, especially since we aim to put our tent up on gravel-heavy areas. When we leave, we aim to ensure the site looks as it did when we arrived.

# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**

**SECTION E3: Vessel Use**

**SECTION F1: Site Cleanup**

**SECTION G1: Well Authorization**

**SECTION G2: Onland Exploration**

**SECTION G3: Offshore Exploration**

**SECTION G4: Rig**

**SECTION H1: Vessel Use**

**SECTION H2: Disposal At Sea**

**SECTION I1: Municipal Development**

**Qanurittuq Ittunik Avatinga: Avatingalluanga**

**Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga**

**Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga**

**Miscellaneous Project Information**

**Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit**

**Tamatkiumayunik Ihuikgutivaktunik**



Impacts

Ilitariyauniq Avatiliriniqmut Ayurhautingit

		PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Havakvinga																										
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Aulapkaininnga																										
Camp		M	-	-	-	-	-	-	-	M	-	-	M		M	M	M	-	M		-	-	-	-	-	-
Piiqtauniq																										
-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	polygon	Cape Hay Colony to survey
2	point	Field Camp Location