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Marine Habitat Use of Thick-billed Murres

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New

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Scientific Research

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3/7/2024 10:02:47 AM

Period of operation:

from 2024-07-20 to 2024-08-31

ᐱᓕᓕᓐᓂᓐᓂᓐᓂᓐ:

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ፍጹሙ ስለሆነ ለጥራት ማረጋገጫ ማረጋገጫ ማረጋገጫ

▷Δ&∩D^c: 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

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

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ᐃᑦᓇᓕᓯᓪᓗᒃ	ᐱᓂᑦ	ᐅᐳᓪᓴᐱᑦᐅᓂᓂᓯᓪᓗᒃ	ᑦᐸᓚᐱ ᐳᓵᑦᓂᑕᐅᓚᐅᓚᐱᑦᓴᓂᑦ
ᓯᑦᓂᓚᑕᑦᐅᑦ	Judah Innualuk	Mittimatalik HTO	2024-02-13
ᓯᑦᓂᓚᑕᑦᐅᑦ	Julia Prokopick	Asungasungaata Area Co-management Committee	2022-06-01

$\mathbb{C} \Delta^{\text{a}} \dot{\rho}^c \wedge J^{\text{a}}_{\text{a}} \triangleright \dot{n} \triangleleft^{\text{a}} \Gamma^{\text{ab}} C \triangleright \rho L \dot{\nu}^c$

Project transportation types

Transportation Type	How will you be travelling to and from your camp?	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


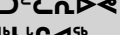



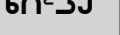
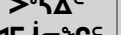
Temporary Camp

◀↻▶σ◀^{6b}↻^{6b}

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ᐃᓕᓴᓴ ᐱᑦᐅᑦ ᐃᐅᓴᐅᓂᐄᑦᐅᓴᑦ ᑦᓄᐱᑦᐅᓂᓴᓴ	ᑦᑲᒋᐅᑦ	ᐃᓕᓴᓴ - >ᑦᐅᓂᓴᓴ	ᓴᓴᑦ ᐃᐅᓴᐅᓂᐄᑦᐅᓴᑦ
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

በበፍጥነታችን ምሽት ከፊት ጀምሮ በፍጥነት እና በፍጥነት

						
Aviation fuel	fuel	1	45	45	Gallons	Fuel for helicopter flight time to survey Cape Hay and Cape Graham Moore thick-billed murre colonies

ΔL^{9b} ◀^{9b} C ▶^{9b} L^{9b} ▶^{9b}

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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.

$$\Delta^b C d r n \sigma \Delta^c \sigma^c b$$

ለጽሑፊዎች የሚያስፈልጉትን ማብራሪያ	የአካባቢው አጠቃላይ መሬት	የአካባቢው ዕድገት	የአካባቢው ተጭነት	የአካባቢው ንጹህናት
Camp	ተጨማሪ መሬት መጓዘት	6 garbage bags	Incineration at high temperatures	Ash removed and brought to Pond Inlet for disposal.
Camp	በእርስዎ ምስክር ዕቅድ	5L/day	Placed in sump at least 100m from water bodies	Backfilled to match landscape.
Camp	ተጨማሪ መሬት መጓዘት	3 garbage bags	Flown back to Pond Inlet for disposal at dump.	Stored in garbage bags in camp. Removed when we leave.
Camp	የዕቃዎች ምዕረፍ	10L/day	In a sump at least 100m from water bodies (river, lake, etc).	Backfilled to match contours of the land

[illegible]

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

L^ae <AEN>^c: ‘ḥmΔC]c-ṭn>σ^sl: mē>^c: ‘ḥmΔC]σ^sl

[illegible][illegible]

Miscellaneous Project Information

[illegible]

Cumulative Effects

Impacts

$\mathbb{A}^{\mathfrak{b}} \mathbb{C} \triangleright \sigma^{\mathfrak{a}} \mathfrak{r}^{\mathfrak{c}} \triangleleft \mathfrak{e} \mathfrak{n} \Gamma \triangleright \mathbb{C} \dot{\sigma}^{\mathfrak{c}} \mathbb{D}^{\mathfrak{c}} \triangleleft \mathfrak{b} \mathbb{D}^{\mathfrak{b}} \mathbb{C} \triangleright \mathfrak{l} \mathfrak{r}^{\mathfrak{c}}$

[illegible]

($P = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $N = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $M = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$, $U = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$)

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