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NIRB Application for Screening #125303

Recover tracking devices on Arctic terns

Application Type: New
Project Type: Scientific Research
Application Date: 3/27/2018 2:39:13 PM
Period of operation: from 0001-01-01 to 0001-01-01
Proposed Authorization: from 0001-01-01 to 0001-01-01
Project Proponent: Mark Mallory
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DETAILS

Non-technical project proposal description

English: Tiny tracking devices have been deployed on seabirds nesting at Nasaruvaalik Island, the site of a >10 year study on the birds. In 2018, we need to return to the island, find the birds with those tracking units on them, catch them, remove the unit, and release the bird. Then we return south with the tracking units to download them and map where the birds move through the year. This will help us identify what risks they face during migration and in their wintering area. We will also be sealing up much of the camp as there are no plans to return in 2019.

French: De minuscules dispositifs de repérage ont été déployés sur des oiseaux de mer nichant à l'île Nasaruvaalik, site d'une étude de plus de 10 ans sur les oiseaux. En 2018, nous devons retourner sur l'île, trouver les oiseaux avec ces unités de suivi, les attraper, enlever l'unité et relâcher l'oiseau. Puis nous retournons au sud avec les unités de suivi pour les télécharger et cartographier où les oiseaux se déplacent tout au long de l'année. Cela nous aidera à identifier les risques auxquels ils sont exposés pendant la migration et dans leur zone d'hivernage. Nous allons également sceller une grande partie du camp car il n'y a pas de plans pour revenir en 2019.

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Personnel

Personnel on site: 3
Days on site: 10
Total Person days: 30
Operations Phase: from 2018-07-01 to 2018-07-20

Activities

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Nasaruvaalik Island field camp	Scientific/International Polar Year Research	Crown	A field camp has been located here since 2007	There are two small tent rings outside of where our activities take place. We notified the relevant GN Dept in ~ 2008.	Resolute Bay is >100 km to the south. We have never seen anyone at our camp during the field season. We are >50 km east of Polar Bear Pass NWA and we don't enter it.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Resolute Bay	Resolute Bay HTA	Resolute Bay HTA	2017-01-11

Authorizations

Indicate the areas in which the project is located

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Environment and Climate Change Canada	Banding PermitScientific Permit	Applied, Decision Pending		
Government of Nunavut, Department of Environment	Wildlife Research Licence	Applied, Decision Pending		

Project transportation types

Transportation Type	Quantity	Proposed Use	Length of Use
Air	0	Twin Otter to fly in to camp and then again to pick us up and fly out; landing strip available	

Project accommodation types

Permanent Camp

Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Information is not available			

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	2	20	40	Liters	for small generator
	fuel	2	20	40	Liters	kerosene for cabin heater

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	fill blue barrels and bring from Resolute BAy	from Resolute Bay in barrels

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Scientific/International Polar Year Research	Combustible wastes	20 L	fly out to Resolute Bay	none
Scientific/International Polar Year Research	Greywater	50 L	fly out to Resolute in barrels	none
Scientific/International Polar Year Research	Non-Combustible wastes	20 L	fly out to Resolute BAy	none
Scientific/International Polar Year Research	Sewage (human waste)	20 L	existing outhouse at camp will be used (> 200 m from water sources)	none

Environmental Impacts:

We have worked here for over a decade. This year we have a small team with no new construction or changes, and we are focused on simply catching birds that we previously banded and removing tracking equipment from them. Hence, we do not expect any negative environmental impacts, and positive impacts include determining migration routes of terns so that we can determine why populations appear to be in decline.

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

Description of Existing Environment: Physical Environment

This is a flat gravel island where we have worked for over a decade. Other than building a camp, we have made no changes.

Description of Existing Environment: Biological Environment

There are tern and eider colonies at both ends of the island, away from the camp. We rarely see other wildlife (occasional polar bears, and walrus early in the season).

Description of Existing Environment: Socio-economic Environment

We have hired people from Resolute Bay or from other communities in most years at the site. This year we intend to hire Uluriak Amarualik, but we will send her in with the team at Prince Leopold Island, not Nasaruvaalik Island.

Identification of Impacts and Proposed Mitigation Measures

n/a

Cumulative Effects

n/a

Impacts

Identification of Environmental Impacts

Construction																								
-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation																								
Scientific/International Polar Year Research		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-		-	-	-	-
Decommissioning																								
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(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)