

□

NIRB Application for Screening #125201

NUNALIVUT 2018

Application Type: New
Project Type: Defence
Application Date: 12/6/2017 9:35:48 AM
Period of operation: from 0001-01-01 to 0001-01-01
Proposed Authorization: from 0001-01-01 to 0001-01-01
Project Proponent: Tamara Vandyck
On Behalf of Department of National Defence
180 Kent St., 14th Floor
Ottawa Ontario K1P 0B6
Canada
Phone Number:: 613-993-2234, Fax Number::

DETAILS

Non-technical project proposal description

English: Please see attached
French: n/a
Inuktitut: Please see attached
Inuinnaqtun: Please see attached

Personnel

Personnel on site: 110
Days on site: 18
Total Person days: 1980
Operations Phase: from 2018-03-01 to 2018-03-19

Activities

Activities

| Location | Activity Type | Land Status | Site history | Site archaeological or paleontological value | Proximity to the nearest communities and any protected areas |
|---|---------------|---------------------------|--|--|--|
| Cambridge Bay Op Box | Camp | Inuit Owned Surface Lands | This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites. | Unknown | Unknown |
| Cambridge Bay Op Box | Camp | Crown | This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites. | Unknown | Unknown |
| Resolute Bay Op Box | Camp | Inuit Owned Surface Lands | This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites. | Unknown | Unknown |
| Resolute Bay Op Box | Camp | Crown | This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites. | Unknown | Unknown |
| Live Fire Range Site near Cambridge Bay | Other | Crown | Unknown | Unknown | Sea ice off Finlayson Islands, approx. 37 km west off the community of Cambridge Bay |
| Live Fire Range Site near Resolute Bay | Other | Crown | Unknown | Unknown | Approx. 1.67 km east off the community of Resolute Bay |

Community Involvement & Regional Benefits

| Community | Name | Organization | Date Contacted |
|---------------|------------|-----------------------------------|----------------|
| Cambridge Bay | Fred Muise | The Municipality of Cambridge Bay | 2017-12-05 |

Authorizations

Indicate the areas in which the project is located

Kitikmeot
North Baffin

Authorizations

| Regulatory Authority | Authorization Description | Current Status | Date Issued / Applied | Expiry Date |
|-----------------------------|--------------------------------------|-----------------|-----------------------|-------------|
| Other | NPC, Conformity Determination Letter | Active | 2016-11-12 | |
| Kitikmeot Inuit Association | Application for Access to IOL | Not Yet Applied | | |
| Qikiqtani Inuit | Application for Access | Not Yet Applied | | |

| | | | | |
|--|-----------------------------|-----------------|--|--|
| Association | to IOL | | | |
| Indigenous and Northern Affairs Canada | Land Use Permit Application | Not Yet Applied | | |

Project transportation types

| Transportation Type | Quantity | Proposed Use | Length of Use |
|---------------------|----------|---|---------------|
| Air | 0 | Aircrafts (CC-138, CC-130, CC-177) and helicopter (CH-146) | |
| Water | 0 | On sea ice - Light-Over-Snow-Vehicles (LOSVs) and snowmobiles | |
| Land | 0 | BV206 (MOSV), LOSVs and snowmobiles | |

Project accomodation types

Temporary Camp

Other,

Material Use

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

| Equipment Type | Quantity | Size - Dimensions | Proposed Use |
|------------------------------|----------|----------------------|--|
| Aircraft, CC-177 Globemaster | 1 | L53m/W52m/H17m | Transportation of troops & equipment |
| Aircraft, CC-130 Hercules | 1 | L30m/W40m/H11m | Transportation of troops & equipment |
| Aircraft, CC-138 Twin Otter | 3 | L15.1m/W9.81m/H5.66m | Transportation of troops & equipment |
| Helicopter, CH – 146 Griffon | 1 | L17m/W14m/H4.6m | Transportation of troops & equipment |
| BV206, MOSV | 2 | L5.72m/W2.01m/H2.72m | Transportation of troops & equipment |
| LOSV | 90 | L3.00m/W1.30m/H1.20m | Transportation of troops & equipment |
| Heater | 20 | L4.24m/W2.75m/H1.20m | Heating |
| 5kW Generator | 2 | L4.0m/W3m/H.2m | Power generation |
| Compression Chamber | 1 | L2.1m/W1.3m/H2.0m | Safety in case of diver nitrogen poisoning |

Detail Fuel and Hazardous Material Use

| Detail fuel material use: | Fuel Type | Number of containers | Container Capacity | Total Amount | Units | Proposed Use |
|---------------------------|-----------|----------------------|--------------------|--------------|--------|--|
| Diesel | fuel | 29 | 205 | 5945 | Liters | Transportation, heating & power generation |
| Gasoline | fuel | 27 | 205 | 5535 | Liters | Transportation |
| Naphtha | fuel | 4 | 5 | 20 | Liters | Cooking and heating |
| Oil | fuel | 50 | 5 | 250 | Liters | Transportation |

Water Consumption

| Daily amount (m3) | Proposed water retrieval methods | Proposed water retrieval location |
|-------------------|----------------------------------|-----------------------------------|
| 1 | Ice blocks | Municipal water plant |

Waste

Waste Management

| Project Activity | Type of Waste | Projected Amount Generated | Method of Disposal | Additional treatment procedures |
|------------------|--------------------|----------------------------|---|---------------------------------|
| Access Road | Combustible wastes | 100 lbs/day | All combustible waste produced in the field will be returned to the nearest settlement for proper disposal by contract. | None |
| Other | Greywater | 100 lbs/day | Greywater produced at temporary camp sites, is anticipated to be minimal where use of water will be mostly for personal consumption (drinking and cooking). Greywater produced at Cambridge Bay and CAFATC will be disposed of via existing infrastructure. | None |
| Other | Hazardous waste | Unknown | All hazardous waste will | None |

| | | | | |
|-------|------------------------|-------------|---|------|
| | | | be shipped to larger urban centers for proper disposal by qualified operators. | |
| Other | Non-Combustible wastes | 100 lbs/day | All non-combustible waste produced in the field will be returned to the nearest settlement for proper disposal by contract. | None |
| Camp | Sewage (human waste) | 100 lbs/day | Human waste produced in the field will be collected (bagged) and shipped south for proper disposal. | None |

Environmental Impacts:

Please see Project Description document attached herein.

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

Description of Existing Environment: Biological Environment

All activity conducted in this area is assessed as low impact and any wildlife sightings will be recorded and reported. Peary Caribou are an endangered species and live in the vicinity of Resolute Bay. Dolphin and Union Caribou are a species of special concern and live in the vicinity of Cambridge Bay. Human activities have the potential to disturb these animals, however any caribou seen will be avoided minimizing the potential disturbance of any individual caribou or caribou herds.

Description of Existing Environment: Socio-economic Environment

Based on all of the information available regarding the proposed Op NU 18 and the surrounding environment, if designed and carried out using the knowledge of the local I CRPG members in to addition to the identified mitigation measures, and follow-up programs and monitoring, Op NU 18 is not likely to cause any significant effect on the environment.

Identification of Impacts and Proposed Mitigation Measures

The following is a list of potential impacts which could result from the proposed activities:

- Activity and vehicle traffic from the proposed activities is expected to increase ambient noise levels and may also cause minor disturbance to the wildlife within the vicinity of activity locations. However, since all activities will be temporary, impacts are expected to be minimal.
- Vehicles involved in Op NU 18 will release particulate into the atmosphere and contribute to greenhouse gas emissions. Air quality in the vicinity of activities may be temporarily reduced due to the increased fumes. However, due to the relatively short duration of the activity, and the use of new, lower emission vehicles, impacts to the atmosphere are expected to be minimal.
- Despite direction to ensure all waste material is to be properly contained and transported back for disposal, the potential exists for waste material produced during Op NU 18 to litter property or be windblown onto surrounding locations. However, every effort will be made to ensure this does not happen; therefore, the impact is considered to be easily mitigated and insignificant.
- Should a fuel leak and/or spill occur from vehicles, equipment, etc, the possibility exists for contamination of ground water resources, soil and/or surface water. However, all units traveling outside Resolute Bay or Cambridge Bay will have spill cleanup supplies, and will be instructed on their use; therefore, the potential for a malfunction and/or accident to cause any significant impact is low.
- Peary Caribou are an endangered species and live in the vicinity of Resolute Bay. Dolphin and Union Caribou are a species of special concern and live in the vicinity of Cambridge Bay. Human activities have the potential to disturb these animals, however any caribou seen will be avoided minimizing the potential disturbance of any individual caribou or caribou herds. While there is potential for activities to impact the environment, mitigation measures have been established to minimize their significance. These mitigation measures include, but are not limited, to:
- An environmental brief will be provided to personnel involved in the exercise to ensure they have the required general level of environmental awareness and knowledge, and are aware of requirements related to wildlife prevention, response and reporting.
- Vehicle movement will be restricted in sensitive areas. In the event established trails are impassable, personnel will be instructed to use alternate routes for as limited a distance as necessary.
- Individuals will be tasked to ensure waste material and litter is collected on the site prior to departing the camp location. All waste produced on site will be packed out to Resolute Bay or Cambridge Bay for proper disposal.
- In order to prevent any unnecessary wildlife encounters, all waste will be appropriately contained, stored and removed from the sites as soon as possible.
- All caribou will be avoided and not disturbed in any way.
- Personnel will keep at least 1 km away from the boundary of the Polar Bear Pass National Wildlife Area.
- Personnel will be made aware of the potential for threats from local wildlife and instructed to avoid encounters or disrupt any wildlife unless absolutely necessary.
- Local treatment systems and municipal landfill or incineration will be used for the disposal of human waste. Waste generated during foot patrols or when municipal services are otherwise unavailable, will be bagged and packed out for appropriate disposal;
- Local landfill or incineration will be used for the disposal of combustible waste. Disposal will occur in accordance with territorial and municipal regulations (waste will be handled by contract);
- Local landfill, incineration or recycling centers, where available, will be used for the disposal of non-combustible wastes. Disposal will occur in accordance with territorial and municipal requirements (waste will be handled and disposed by contract);
- All noise making activities will be limited as much as possible.
- Vehicles and equipment will be maintained in good repair to prevent leakage of fuel, oil,

etc. • Generators will be placed within suitable containment throughout the operation, and will be emptied for transportation; • When in Resolute Bay or Cambridge Bay, all vehicle/equipment refueling will occur in a central location. • Use of spill containment items including drip pans or mobile plastic berms will be maximized during refueling. • All fuel storage systems and containers to be used in Op NU 18 will be transported, stored, protected, etc. according to proper legislation, regulation, codes and guidelines. • All hazardous materials (HAZMAT) and fuel will be stored in approved storage containers and facilities, including compliant secondary containment and will be stored in accordance with municipal, territorial, and federal regulations; • HAZMAT prevention/response resources (spill pans, hydrocarbon spill pads, absorbent, etc.) will be available and ready for use if required. Spill kits will be specifically located at all fuel storage areas, vehicle maintenance areas and refueling areas. • All hazardous materials (HAZMAT), fuel storage, generator and vehicle parking areas are subject to inspection by environmental support staff. All involved elements will appoint an environmental representative, accountable for the supervision of best environmental practices; • HAZMAT waste will be appropriately packaged and transported to a suitable facility for disposal, in accordance with appropriate regulations – provided by a third party waste disposal facility if required; and, • Photographs will be taken of all training location sites, and temporary camp locations before, during and after use. Based on all of the information available regarding the proposed Op NU 18 and the surrounding environment, if designed and carried out using the knowledge of the local ICRPG members in addition to the identified mitigation measures, and follow-up programs and monitoring, Op NU 18 is not likely to cause any significant effect on the environment.

Cumulative Effects

