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## **NIRB Application for Screening #125021**

### **NOREX 17**

**Application Type:** New  
**Project Type:** Defence  
**Application Date:** 11/7/2016 3:07:30 PM  
**Period of Operation:** From 2017-03-18 to 2017-03-31  
**Proposed Authorization:** From 2017-03-06 to 2017-03-31  
**Project proponent:** Major Gordon Prentice  
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## **DETAILS**

### **Non-technical project proposal description**

**English:** Military training will be staged from the Canadian Armed Forces Arctic Training Centre (CAFATC) located in Resolute Bay, NU. Twenty soldiers will arrive on 6 March 2017 with the remainder arriving on 18 March. On 20 March all soldiers, along with 26 Canadian Rangers, will move north overland via Ski-Doo to the north east portion of Cornwallis Island where a temporary tented camp will be established. This camp will be located close to Eleanor Lake which will subsequently be used for the landing of aircraft of DC 3 type or smaller. On 21 March groups of 30 soldiers will move by air or ski-doo to three additional locations (Eureka, Gascoyne Inlet and Polaris). These groups return to the Eleanor Lake camp and spend one more night at there before moving overland via ski-doo to Resolute on 25 March. The final day of training will occur east of Resolute with the conduct of a rifle range. Once the rifle range is completed on 26 March, all personnel will return to CAFATC.

**French:** Please contact the applicant if a French version is required.

**Inuktitut:** Please contact the applicant if a French version is required.

### **Personnel**

Personnel on site: 134

Days on site: 6

Total Person days: 804

Period of operation: from 2017-03-18 to 2017-03-26

Proposed term of operation: from 2017-03-06 to 2017-03-31

## ACTIVITIES

### Project Activities

Location	Activity Type	Land Status	Site History	Site Archaeological or Paleontological Value	Proximity to the nearest communities and any protected areas
Eleanor Lake Op Box	Other	Crown	This location will be used to establish a temporary tented camp. As well, an austere airfield will be established on the lake ice. Aircraft landed will be DC 3 or smaller. Personnel will disperse from Eleanor Lake to other locations within the indicated area.	No archaeological/paleontological value noted.	Located approximately 60 kms NE of Resolute. No protected areas are known to exist in the immediate vicinity.
Eureka Op Box	Other	Crown	Thirty personnel will be moved by air from Eleanor Lake to Eureka. From the airfield in Eureka they will move onto the land remaining for no more than two nights before departing by air back to Eleanor Lake.	No known archaeological / paleontological points of interest noted.	The only habitation within this area is the Environment Canada facility at Eureka with whom coordination has occurred. The nearest community is Grise Fjord which is several hundred kms distant.
Gascoyne Inlet Op Box	Other	Crown	Thirty personnel will move by air (weather permitting) or ski doo from Eleanor Lake to the vicinity of the DRDC Camp at Gascoyne Inlet. They will conduct patrols on the land for no more than two nights before returning to Eleanor Lake.	The Franklin Expedition site at Beechy Island is located within this location. Personnel may visit this historic / archaeological site during the course of their patrols. Coordination with Parks Canada will be undertaken. The historic site will not be disturbed in any way.	Resolute is the nearest community and is located approximately 60kms to the west of this deployment location.
Polaris Op Box	Other	Crown	Should air movement from Eleanor Lake to Eureka not be possible, the thirty persons in this group will instead conduct an overland ski-doo movement to Polaris. On arrival they will conduct patrols within the designated area for no more than 48hrs (two nights) before	No known archaeological / paleontological value noted.	Resolute is the nearest community and is located approximately 60kms to the south east of this deployment location.

			returning to Eleanor Lake.		
Resolute Op Box	Other	Municipal	The Canadian Armed Forces Arctic Training Centre (CAFATC) has been established cooperatively with the Polar Continental Shelf Project (PCSP). Military personnel will use CAFATC on arrival and will then conduct acclimatisation training at the established Crystal City site two kms to the north of CAFATC. A rifle range will also be conducted east of Resolute at a location used previously for this purpose.	The archaeological site located across the road from the Resolute town land fill/dump will not be visited or disturbed.	Resolute is immediately adjacent to this area however there is no intention for troops to enter the community during training. Troops will be permitted (if time allows) to visit the Northern Coop or other similar commercial enterprises located within the community of Resolute.
Austere Landing Strip	Airstrip use or construction	Crown	Aircraft up to DC 3 in size will land and take off from this location between 20-25 March 2017.	Water Body. No archaeological / paleontological value.	Resolute is the nearest community and is located approximately 60kms SW from this location.
Rifle Range	Other	Inuit Owned Surface Lands	This location has been used previously for a rifle range activity. Firing is oriented from West to East (away from the community of Resolute). Rifle, shot gun and light machine guns will be fired between 25-26 March 2017.	No known archaeological / paleontological value.	The community of Resolute is approximately two kms West of this location.
ARCG Temporary Camp	Camp	Crown	This location will be the primary ARCG temporary tented camp site and will see a maximum of 134 personnel in 16 tents between 20-25 March 2017.	No known archaeological / paleontological value.	Resolute is the nearest community and is approximately 60kms to the South West of this location.
Alternate ARCG Temporary Camp	Camp	Crown	This site will be used only if the primary temporary camp site is found to be unsuitable. It is an alternate location and only one of the two will be used.	No known archaeological / paleontological value.	Resolute is the nearest community and is located approximately 65kms South West of this location.
Fuel Cache	Fuel and chemical storage	Crown	This will be a small cache of no more than 10 x 200L	No archaeological/paleontological value noted.	Located approximately 60 kms NE of

			drums of gasoline required to support ski-doo operation. Any remaining fuel, and all drums/related material, will be removed at the conclusion of training. Appropriate spill prevention equipment will be on site and immediately available.		Resolute. No protected areas are known to exist in the immediate vicinity.
Alternate Fuel Cache	Fuel and chemical storage	Crown	This location is the alternate site for a fuel cache of no more than 10 x 200L drums of gasoline required to support ski-doo operation. All fuel, drums and related material will be removed at the conclusion of training. Appropriate spill response equipment will be immediately available.	No known archaeological/paleontological value noted.	Located approximately 60 kms NE of Resolute. No protected areas are known to exist in the immediate vicinity.

### Community Involvement and Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

### AUTHORIZATIONS

#### Project Locations

North Baffin

#### Project Authorization

Authorizing Agency	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Department of Culture, Language, Elders, and Youth	Permission will be sought from the Nunavut Department of Culture and Heritage for a brief visit to the Franklin Expedition site on Beechy Island by up to 30 personnel from the Gascoyne Inlet Op Box location. Planned dates are between 20-25 Mar 2017.	Not Yet Applied		
Environment Canada	Accommodation for up to five personnel within the Environment Canada site at Eureka will be requested to support the deployment of 30	Not Yet Applied		

	<p>personnel on the land within the Eureka Op Box. Informal coordination with the Site Manager at Eureka has already been conducted.</p>			
Nunavut Water Board	<p>Current planning is for all water to be obtained from existing facilities at CAFATC and transported to Camp locations in the form of ice blocks. Nunavut Water Board permits will be sought if required.</p>	Not Yet Applied		

## MATERIAL USE

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Ski-Doo	70	2M x 1M	Overland transportation of 136 personnel from Resolute to the Eleanor Lake Op Box/austere airfield site 20 March and return 25 March. No more than six machines may be transported by air from Eleanor Lake to Eureka 21-24 March. Groups of no more than 20 ski-doo may also travel to Gascoyne Inlet and Polaris 21-24 March.
BV-206	2	2.5M x 1.5M	These articulated and tracked oversnow vehicles will accompany the move from Resolute to the Eleanor Lake camp and return. They will be used as logistic vehicles as well as potentially being employed as ground evacuation platforms should casualties occur. Further movement from Eleanor Lake to Gascoyne Inlet or Polaris is unlikely but possible.
DC 3	2	29M x 20M	This aircraft type will transport personnel from the Eleanor Lake austere airfield location to Eureka, Gascoyne Inlet and possibly Polaris. Movement of logistic supplies to include ski-doo, rations and packaged fuel is also possible.
Twin Otter	2	20M x 15M	This aircraft type will be used to transport personnel from the Eleanor Lake austere airfield location to Eureka, Gascoyne Inlet and possibly Polaris. Movement of logistic supplies consisting primarily of rations and packaged fuel will also be undertaken. It will also move personnel and supplies from Resolute to all of the above locations.
Helicopter	1	17M x 15M	This aircraft type will be used to transport personnel from the austere airfield at Eleanor Lake to Gascoyne Inlet, Eureka and possibly Polaris. Logistic resupply flights of rations and packaged fuel are also possible and could include external slung loads. Flights from Resolute to all of the above locations are likely.
10 Man Tent Groups	16	3M diametre	These tents will be used to establish temporary camps. The largest comprising all exercise participants on the land will be at Eleanor Lake (16 tents). Smaller groups will then move from this location to either Gascoyne Inlet, Polaris or Eureka taking appropriate

			tentage with them. Tent groups include the tent, stove/lantern, 4L naphtha container, snow shovel/tools and a toboggan container for the packaged tent group.
Generator	4	1M square	These small generators will be used in temporary camp locations to recharge/operate essential equipment such as radios.

#### Detail Fuel and Hazardous Material Use

Fuel / Material	Type	Number of Containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	16	20	320	Liters	Ski-doo fuel which will be carried in toboggans or on the ski-doos.
Aviation fuel	fuel	0	0	0	Liters	Refuelling of all aircraft will take place at established airfields only.
Other	fuel	16	3.75	60	Liters	Naptha for use in tent group stoves and lanterns. Containers will be transported in toboggans with the packed tent groups.
Diesel	fuel	10	20	200	Liters	Vehicle Fuel for BV-206
Gasoline	fuel	10	200	2000	Liters	Fuel Cache to support ski-doo operations from Eleanor Lake.

#### Project Water Consumption

Daily Amount (m3)	Proposed Water Retrieval Methods	Proposed Water Retrieval Location
2	Ice blocks obtained from CAFATC and transported overland or by air to deployed troop locations.	CAFATC, Resolute Bay

#### WASTE

##### Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional Treatment Procedures
Camp	Combustible wastes	300kgs	Removed for disposal at Resolute/CAFATC	Transported south if unable to dispose of appropriately.
Camp	Greywater	200L	Removed to Resolute/CAFATC for disposal	Transported south if unable to dispose of appropriately.
Camp	Hazardous waste	50kgs	Used batteries which will be shipped south for disposal	Nil

Camp	Non-Combustible wastes	50kgs	Shipped south for disposal.	Nil
Airstrip use or construction	Other,	0	There will be no construction related to operation of this airstrip. There will be no on site refuelling.	N/A
Camp	Sewage (human waste)	100kgs	Removed for disposal at CAFATC/Resolute Bay	Transported south if unable to dispose of appropriately.

**Environmental Impacts**

All materials and equipment will be removed at the conclusion of the exercise. There is no plan to remove soil or rock or to otherwise interfere with the natural grade of the land. All garbage, human waste and any contaminated (grey) water will be returned first to CAFATC. Those items which can be disposed of in facilities at Resolute Bay will be processed at that location. All other items will be returned south for disposal. Nothing will be released onto the land and no waste disposal will occur outside of Resolute Bay. All locations visited will be returned to their previous condition prior to departure. Given the short duration of activities, the limited interaction with environmental components and the proposed mitigation measures, there should be no negative impacts to the environment.

Description of Existing Environment: Physical Environment

Description of Existing Environment: Biological Environment

Description of Existing Environment: Socioeconomic Environment

Identification of Impacts and Proposed Mitigation Measures

Cumulative Effects

**IMPACTS**

**TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS**

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CONSTRUCTION																						
-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPERATION																						
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DECOMMISSIONING																						
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(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)