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NUNAVUT WATER BOARD

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**APPLICATION FOR APPROVAL FOR THE USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE**

Refer to the Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence (Guide) in completing this Application.

<b>APPLICATION NO:</b> (for NWB use only)	
<b>1. APPLICANT CONTACT INFORMATION</b> (name, address)  Colonel Stephen Lacroix Commander 3 <sup>rd</sup> Canadian Division Support Group P.O. Box 10500 Station Forces Edmonton, Alberta T5J 4J5	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Captain Andrew Ngo Northern Coordinator P.O Box 10500 Station Forces Edmonton, Alberta T5J 4J5 <a href="mailto:andrew.ngo@forces.gc.ca">andrew.ngo@forces.gc.ca</a>  (780) 973-4011 Ext 8049
<b>3. NAME OF THE OWNER OF THE LAND THAT WILL BE USED IN RELATION TO THE WATER TO BE USED OR THE WASTE TO BE DEPOSITED</b>  Crown Land, Resolute Bay Municipal Land, Grise Fiord Municipal Land, Inuit Owned Land	

<b>4. NAME OF PROJECT</b> (consistent with the name of the project issued by other regulatory agencies)  OPERATION NUNALIVUT 16																
<b>5. LOCATION OF UNDERTAKING</b> <b>Project Extents (decimal degree format)</b>																
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #ffff00;"> <th>Extreme Maximum</th> <th>Lat: DD</th> <th>Long: DD</th> </tr> </thead> <tbody> <tr> <td>NW</td> <td>N 82.607340</td> <td>W 105.789271</td> </tr> <tr> <td>SW</td> <td>N 74.641666</td> <td>W 105.789271</td> </tr> <tr> <td>NE</td> <td>N 82.607340</td> <td>W 61.528930</td> </tr> <tr> <td>SE</td> <td>N 74.641666</td> <td>W 61.528930</td> </tr> </tbody> </table>		Extreme Maximum	Lat: DD	Long: DD	NW	N 82.607340	W 105.789271	SW	N 74.641666	W 105.789271	NE	N 82.607340	W 61.528930	SE	N 74.641666	W 61.528930
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Note: The above coordinates encompasses the four operational boxes (Op Box) proposed for Operation Nunalivut 16. Each Op Box coordinates are detailed below:																

Op Box: Alert	Lat: DD	Long: DD
NW	N 82.60734	W 63.02856
SW	N 82.36748	W 63.02856
NE	N 82.60734	W 61.52893
SE	N 82.36748	W 61.52893

Op Box: Grise Fiord	Lat: DD	Long: DD
NW	N 76.468150	W 83.524632
SW	N 76.375003	W 83.524632
NE	N 76.468150	W 83.135741
SE	N 76.375003	W 83.135741

Op Box: Resolute Bay	Lat: DD	Long: DD
NW	N 74.8333333	W 95.0875
SW	N 74.641666	W 95.0875
NE	N 74.8333333	W 94.241666
SE	N 74.641666	W 94.241666

Op Box: Bathurst Island	Lat: DD	Long: DD
NW	N 76.821638	W 105.789271
SW	N 74.834406	W 105.525599
NE	N 76.896569	W 95.819178
SE	N 74.977449	W 95.725794

**Camp Location(s) (decimal degree format)**

Bivouac Site	Degrees
Op Box Grise Fiord	N 76.41978 W 83.1404
Polaris Mine	N 75.408127 W 96.666536

**Name of the Water Management Area in which the Undertaking is located.** (Please see Appendix D of the Guide):

- 55 – Bathurst and Cornwallis Islands Watershed
- 61 – Arctic Ocean and Lincoln Sea Watershed
- 64 – Southern Ellesmere Island Watershed

6. **CLASSIFICATION OF UNDERTAKING** - Indicate the classification of undertaking by checking one of the following boxes.

- Industrial
- Mining
- Conservation
- Municipal

- Agricultural
- Recreational
- Power
- X Other: (describe)

Military Exercise - Establishment of temporary field camps

See Appendix C of the Guide for descriptions of classifications of undertakings.

7. **DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED** – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.

**OPERATION NUNALIVUT 2016**  
**NON-TECHNICAL PROJECT SUMMARY**

Joint Task Force (North) (JTFN) will conduct Operation NUNALIVUT 16 from 03 April to 22 April, 2016 in the Arctic, based out of the Canadian Armed Forces Arctic Training Centre (CAFATC) at Resolute Bay, Nunavut and Canadian Forces Station (CFS) Alert, Nunavut. The overall aim is to further enhance the Canadian Armed Forces' (CAF) knowledge and capacity to operate in austere locations and challenging environments, while allowing the CAF to demonstrate their ability to effectively respond to safety and security issues in the North.

Op NUNALIVUT 16 will be conducted with patrols on the land, on the sea ice, underwater, and in the air. It will consist of approximately 225 CAF personnel, and may feature participation by international partners. To facilitate the conduct of the Operation, JTFN will establish a Task Force Headquarters in Resolute Bay consisting of approximately 15 members with an additional 50 support personnel.

A Canadian Army Company supported by members of 1 Canadian Ranger Patrol Group (1 CRPG) for a total of approximately 120 personnel will execute patrols on the sea ice to the northwest from Resolute Bay and near Grise Fiord, conducting training in Arctic survival skills and patrol Canadian Territory. A live fire exercise is planned to be conducted on the sea ice.

A Dive Team consisting of 20 personnel from the Royal Canadian Navy's Fleet Diving Unit (Atlantic) will be conducting both manned dive operations in CFS Alert. This activity will have a support team of approximately 20 personnel. In addition, the Dive Team will evaluate its cold weather diving ensembles and ice diving tactics, techniques and procedures.

A combination of commercial, CC-177 Globemaster, CC138 Twin Otter, CC-130 and LC-130 Hercules aircraft, along with contracted or military helicopters based in Resolute Bay and Alert, NU, and Yellowknife, NT, will provide transportation, resupply and if required, casualty evacuation services. Ground patrols will be snowmobile mounted, complete with qamutiks in tow.

No permanent structures will be erected. Military tent structures will be erected at temporary field camps for each of the patrol groups and dive team. As a part of winter survival training, shelters will be constructed using existing snow by patrol groups.

All waste and refuse will be returned to CAFATC for proper disposal.

Protected and sensitive areas within the patrols' operational boxes will be avoided and a minimal distance of 100 meters shall be observed when in proximity of these areas.





training of a watercourse that involves removal or placement of less than 100 m<sup>3</sup> of material.

- For an undertaking other than a Power undertaking and for a use of water related to the construction of a temporary structure in a watercourse for the purpose of flood control.
- For an undertaking other than a Power undertaking and for any use of water related to the storage of 2,500 m<sup>3</sup> or less.
- For an undertaking other than a Power undertaking and for any use of water less than 50 m<sup>3</sup> per day.

**10. QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 9, provide the source of water, the estimated quantity to be used in cubic metres per day, and the periods during which water will be extracted.

Type of Water Use indicated in Block 9	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
Less than 50 m <sup>3</sup>	Canadian Armed Forces Arctic Training Centre, Resolute infrastructure	1 m <sup>3</sup> maximum	Daily
Less than 50 m <sup>3</sup>	Grise Fiord municipal water supply system	0.01 m <sup>3</sup> maximum	Daily
Less than 50 m <sup>3</sup>	Canadian Forces Station Alert infrastructure	0.04 m <sup>3</sup> maximum	Daily

**11. TYPE OF DEPOSIT OF WASTE PROPOSED** - Check the box that applies to the type of deposit of waste proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste, an application for a water licence will be required. See the NWB's Guide 4 – Completing and Submitting a Water Licence Application for a New Licence.

- For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste resulting from hydrostatic testing or cleaning of unused storage tanks or pipelines.
- For an Industrial undertaking, for an activity related to quarrying and gravel washing, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel washing above the ordinary high water mark.
- For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.
- For a Power undertaking, any deposit of sewage to a sump.
- For an Agricultural undertaking, any deposit of sewage to a sump.

- For a Conservation undertaking, any deposit of sewage to a sump.
- For a Recreation undertaking, any deposit of sewage to a sump.
- For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.

**12. QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 11, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

Type of Waste indicated in Block 11	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
Human	1 m <sup>3</sup>	Waste bags will be used to collect and transported to CAFATC for proper disposal.	3 to 22 Apr, 2016
Hazardous (petroleum product containers, batteries, etc.)	1 m <sup>3</sup>	To be collected and transported to CAFATC for proper disposal.	3 to 22 Apr, 2016
General refuse (rations packaging, water cartons, etc.)	1 m <sup>3</sup>	To be collected and transported to CAFATC for proper disposal.	3 to 22 Apr, 2016

**13. SIGNATURE**

I, Colonel Stephen Lacroix (print name) certify that the information given on this form is, to the best of my knowledge, correct and complete.

Yes  No

OR

I, \_\_\_\_\_ (print name), as an authorized representative of the Applicant, \_\_\_\_\_, certify that the information given on this form is, to the best of my knowledge, correct and complete.

Yes  No

I certify that the Nunavut Planning Commission's land use planning requirements under Article 11 of the Nunavut Land Claims Agreement have been met.

Yes  No

I certify that the Nunavut Impact Review Board's development impact review requirements under Article 12 of the NLCA have been met.

Yes  No

I certify that the proposed water use is of a type set out in column 2 of Schedule 2 of the Regulations that is further specified by column 3, in respect of an undertaking set out in column 1. See list in Block 9.

Yes  NA  No

I certify that the proposed deposit of waste is an activity that is set out and then further specified in columns 2 and 3 of Schedule 3 of the Regulations, in respect of an undertaking that is set out in column 1 of Schedule 3. See list in Block 11.

Yes  NA  No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of the watercourse whose waters are used.

Yes  No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Lands.

Yes  No

I certify that the proposed water use or deposit of waste will not affect the use of waters by a person who would be entitled to compensation under sections 58 or 60 of the Nunavut Waters Nunavut Surface Rights Tribunal Act (Act) if their use of these waters were to be adversely affected by an applicant for a licence.

Yes  No

I certify that a licence is not required for another use of water, or deposit of waste in respect of the proposed undertaking.

Yes  No

I have read and agree to comply with the following conditions outlined in sections 4(3), 5(4), 5(5) and 6 of the Nunavut Waters Regulations:

1. In the case of an applicant who has a mineral right and who intends to use waters or deposit waste in relation to that right, the applicant shall respect the priority conferred on Inuit by section 62 of the Act as if that applicant had a licence for the use or deposit.
2. Measures must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.
3. No waste is to be deposited to surface water or within 31 metres of the ordinary high water mark of any body of water.
4. The waste shall not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.
5. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of water or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the water was used or the waste was

deposited.<sup>a</sup>

6. An applicant who is authorized under the Regulations to use waters or deposit waste without a licence shall:
- a. maintain accurate and detailed books and records of:
    - i. the quantity of water, in cubic metres, used each day,
    - ii. the quantity, in cubic metres, of waste deposited each day,
    - iii. the type of waste deposited each day,
    - iv. where the waste is deposited,
    - v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
    - vi. the methodology used to calculate or determine the information referred to in items (i) to (iv), and
    - vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
  - b. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
  - c. submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within 30 days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the use or deposit without a licence;<sup>b</sup> and
  - d. keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking.

Notes:

a) A site need not be restored prior to the end of the period authorized for the water use or deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period.

b) An applicant need not submit the report referred to in Item 6 (c), to the Board if the applicant obtains the Board's approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste, on the same site within thirty (30) days after the last day of the period authorized for the use or deposit.

Yes

No

I understand that any approval granted by the Board for the use of water or deposit of waste without a licence will be authorized for a period of one year after the day on which the Board approves the Application. The use or deposit is not authorized until the Board approves the Application and it is only valid as long as the applicant is in compliance with the conditions set out in the declaration above.

Yes

No

I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste.

Yes

No

Colonel Stephen Lacroix	Commander, 3rd Canadian Division Support Group		28 Jan 16
<b>Name (Print)</b>	<b>Title (Print)</b>	<b>Signature</b>	<b>Date</b>