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NUNAVUT WATER BOARD
NUNAVUTIMALIRIYINKATIMAYIT
OFFICE DES EAUX DU NUNAVUT

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

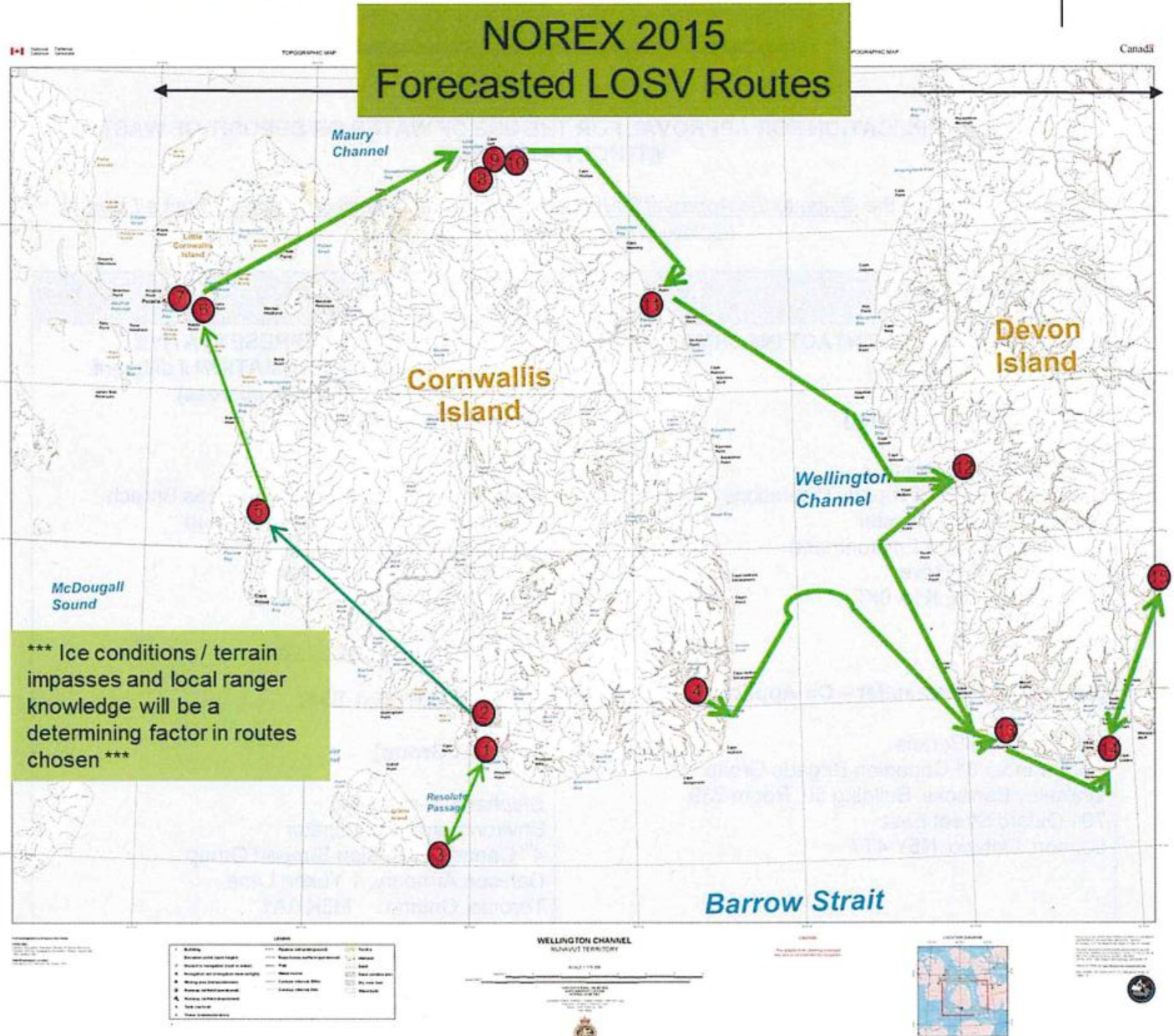
Refer to the Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence
(Guide) in completing this Application.

APPLICATION NO: (for NWB use only)	
<p>1. APPLICANT CONTACT INFORMATION (name, address)</p> <p>[Real Property Authority]</p> <p>Colonel Darlene Quinn Commander, Real Property Operations Group Assistant Deputy Minister (Infrastructure and Environment) 101 Colonel By Drive Ottawa, Ontario, K1A 0K2</p> <p>On behalf of :</p> <p>[Formation Commander – Co-Applicant]</p> <p>Colonel Kevin Bertoia Commander 31 Canadian Brigade Group Wolseley Barracks, Building 50, Room 239 701 Oxford Street East London, Ontario N5Y 4T7</p>	<p>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)</p> <p>[Subject Matter Expert]</p> <p>Michael Gray Chief Environment & Safety Services Branch 3rd Canadian Division Support Group CDSB Edmonton P.O. Box 10500 Station Forces Edmonton, Alberta T5J 4J5</p> <p>Michael.gray@forces.gc.ca</p> <p>(780) 973-4011 Ext 8047</p> <p>[Support Group]</p> <p>Stephanie San Miguel Environmental Coordinator 4th Canadian Division Support Group Denison Armoury, 1 Yukon Lane Toronto, Ontario M3K 0A1</p> <p>Stephanie.SanMiguel@forces.gc.ca</p> <p>(416) 633-6200 Ext 5818</p> <p>Please send correspondence to both emails indicated above</p>
<p>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</p>	

4. **NAME OF PROJECT** (consistent with the name of the project issued by other regulatory agencies)

NOREX 2015

5. **LOCATION OF UNDERTAKING**



Project Extents (decimal degree format)

	DD	DD
NW	75.6100296	-97.0349676
SW	74.4992989	-96.9735248
NE	75.5968017	-90.453197
SE	74.4580566	-90.8298583

Camp Location(s) (decimal degree format)

BIVOUAC CORNWALLIS ISLAND				
BIVOUAC SITE	FUEL	DD	UTM	MGRS
RESOLUTE BAY Biv 1	No	74.721555 -94.98686	15N 441570 8293517	15X VC 41570 93517
RESOLUTE BAY Biv 2	No	74.74984 -95.0007	15N 441756 8296669	15X VC 41266 96685
RESOLUTE BAY Biv 4	No	74.76730 -96.63681	15N 481324 8297744	15X VC 81323 97744
RESOLUTE BAY Biv 5	No	75.03279 -96.45729	14N 573282 8328837	14X NJ 73282 28836
RESOLUTE BAY Biv 8	No	75.61257 -95.0048	15N 444401 8392898.3	15X VD 44401 92898
RESOLUTE BAY Biv 9	No	75.63262 -94.94720	15N 446074.1 8395081	15X VD 46074 95080
RESOLUTE BAY Biv 10	No	75.62966 -94.76901	15N 450997 8394595	15X VD 50997 94595
RESOLUTE BAY Biv 11	No	75.40424 -93.85834	15N 475856 8368886	15X VD 75856 68885
BIVOUAC LOCATIONS Griffith Island // Little Cornwallis Island // Devon Island				
BIVOUAC SITE	FUEL	DD	UTM	MGRS
Griffith Island Biv 3	No	74.50877 -95.25847	15N 4318900 8270109	15X VC 31899 70109
Little Cornwallis Island Biv 6	No	75.36928 -96.82755	14N 561240 8365933	14X NJ 61239 65933
Little Cornwallis Island Biv 7	No	75.38950 -96.93724	14N 558070 8368078	14X NJ 58070 68077
Devon Island Biv 12	No	75.121035 -92.071218	15N 526620 8337320	15X WD 26620 37319
Devon Island Biv 13	No	74.71995 -91.85373	15N 533718 8292687	15X WC 33717 92686
Devon Island Biv 14	No	74.66330 -91.25206	15N 551598 8286800.4	15X WC 51597 86800
Devon Island Biv 15	No	74.88010 -90.88053	15N 561698 8311332	15X WD 61698 11332

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
56 – Western Devon 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 camp

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.

NORTHERN EXERCISE 2015 (NOEX 15) will involve up 220 Canadian Armed Forces personnel from the Regular and Reserve Forces and 16 Canadian Rangers conducting a Defence of Canada Exercise which will include surveillance patrols, survival training, and weapons training in the vicinity of Resolute Bay, Nunavut from 20 March 2015 through 04 April 2015. During that same time period, elements from the exercise will perform sovereignty style patrols to Ellesmere Island, Griffith Island, Little Cornwallis Island and Gascoyne Inlet, Nunavut.

The main focus of training will be to practice the deployment of Canadian Army elements into Canada's High Arctic Region, reaffirming soldier skills while operating in the harsh climatic conditions of the Arctic. The exercise personnel will comprise Canadian Rangers, Arctic Response Company Group, and an element of the Immediate Response Unit, with over all command and control being provided by a Land Component Commander. All members of the exercise will strictly adhere to a "Leave No Trace" policy.

Additionally, a small support organization will remain static at the Canadian Armed Forces Arctic Training Centre (CAFATC) in Resolute Bay. During the initial phase of the exercise, all 220 personnel will operate in the vicinity CAFATC in Resolute Bay.

A small activation team of approximately three (3) personnel will arrive in Resolute Bay on approximately 10 March, followed by an advance support party of seventeen (17) personnel arriving on approximately 16 March 2015. On or about 20 March 2015, the remainder of the exercise participants begin to arrive.

The Canadian Armed Forces elements as part of NOEX 15 will operate within the Qikiqtaaluk Region of Nunavut, and will be centered on Resolute Bay and the CAFATC. The exercise is bounded to the north by Ellesmere Island, to the East by Devon Island, to the West by Little

In addition to exercising in the harsh winter environment of the arctic, a Defence of Canada scenario will be established and utilized, including presence patrolling, the establishment of observation posts, sovereignty patrols and intelligence gathering patrols in and around the entire exercise area.

Concurrent to the above training, the Platoons will conduct live fire weapons training, snowmobile training, survival training and other Platoon and Company level exercises, the training evolutions will be conducted in a round-robin style, with the platoons moving separately through each location or iteration of the training all within the 10-day training window. All training activities will occur within pre-defined area (Op Boxes), and mitigation measures will be implemented to avoid negative environment impacts.

To accommodate all of the soldiers and support personnel, a Main Operating Base Camp will be established at the CAFATC. Smaller field camp and temporary outposts will be created in and around Cornwallis Island, Little Cornwallis Island and Devon Island. At the outpost sites, only temporary (i.e. non-permanent) structures including tents will be erected. Camp will be composed of military arctic tents with coleman stoves and lanterns for a period of one to four nights on the way out and one to four nights on the way back. The exact location will be determined by weather and ice conditions but may be located on sea ice, lake ice or Inuit Owned Land. Fuel for heat, cooking and snow machines will be transported with the platoon on komatiks, and will be used and stored properly. With the exception of a small quantity of water used for cooking and washing, all waste will be contained and disposed of properly within the communities of Resolute Bay at the CAFATC facility. Every effort will be made to ensure that this patrol causes no significant impact to the environment, and no known archaeological sites or resources will be impacted.

[illegible][illegible]

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- ☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a structure across a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of construction.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of an intermittent watercourse.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves the infilling of the watercourse, if the watercourse has no inflow or outflow and a surface area of less than 0.5 hectares.
- ☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves removal or placement of less than 100 m³ 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 m³ or less.

- ☒ For an undertaking other than a Power undertaking and for any use of water less than 50 m³ 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 ³	Municipal water supply	2 m ³ 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 ³	Waste bags will be used to collect and transport waste to municipal facility.	Evening
Hazardous (fuel, naphtha, etc.)	0.1 m ³	Will bring back for disposal at municipal facility	Evening

13. SIGNATURE

I, Colonel Darlene Quinn and I. Colonel Kevin Bertoia (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.^a
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;^b 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

<p>COL D.O. QUINN COMD/RP OPS GP 613-943-7980</p>			<p>2 Feb 15</p>
<p>Name (Print)</p>	<p>Title (Print)</p>	<p>Signature</p>	<p>Date</p>
<p>Colonel Kevin Bertoia</p>	<p>Commander 31 Canadian Brigade Group</p>		<p>22 Jan 15</p>
<p>Name (Print)</p>	<p>Title (Print)</p>	<p>Signature</p>	<p>Date</p>