NIRB Uuktuutinga Ihivriuqhikhamut #126492
Crossbow Capital Project

Uuktuutinga Qanurittuq:	New
Havaap Qanurittunia:	Alaanut
Uuktuutinga Ublua:	Thursday, October 1, 2026
Period of operation:	from 2029-09-01 to 2049-08-31
Havauhikhaq Ikayuqtinga:	Adam Russell on behalf of RPON (Amber Vidal) Real Property Operations North Department of National Defence / Defence Construction Canada 180 Kent Street, 14Th Floor Ottawa Ontario K1P 0B6 Canada Hivayautit Nampanga:: 3435522023, Kayumiktukkut Nampanga::

QANURITTUT

Tukihiannaqtunik havaariyauyumayumik uqauhiuyun

Qablunaatitut: The CROSSBOW project will establish a network of operational defence capabilities across approximately 47 strategic locations in the Canadian Northwest Arctic, from the US-Canadian border in the Yukon to Alert, Nunavut. This Defence capability will operate within self-powered, autonomous, ruggedized power-generating container systems designed for continuous operations in austere environments and extreme Arctic conditions.Other than the 3-5 day temporary deployment & installation camp and for annual maintenance, there will be 0 personnel on site. See attached Project document for full description.

Uiviititut: Le projet CROSSBOW va mettre en place un réseau de capacités de défense opérationnelles sur environ 47 sites stratégiques dans le Nord-Ouest arctique canadien, de la frontière américano-canadienne au Yukon jusqu'à Alert, au Nunavut. Cette capacité de défense fonctionnera au sein de systèmes de conteneurs autonomes, robustes et autoalimentés, conçus pour des opérations continues dans des environnements austères et des conditions arctiques extrêmes.À l'exception du camp temporaire de déploiement et d'installation de 3 à 5 jours et pour la maintenance annuelle, il n'y aura aucun personnel sur site. Voir le document du projet ci-joint pour la description complète.

Inuktitut: ᑖᓐᓇ CROSSBOW ᐱᓕᕆᐊᖑᔪᖅ ᐋᖅᑭᒃᓱᐃᓐᓕᐊᕗᖅ ᐱᓕᕆᖃᑎᒌᒃᐸᒃᑐᓂᒃ ᓴᐳᔾᔨᓯᒪᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᓐᒃᑐᓂᒃ 47–ᐸᓗᖕᓂ ᐃᓂᒋᔭᐅᓪᓗᐊᑕᖅᐸᒃᑐᓂ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖕᒐᓂ, ᐱᒋᐊᖅᓱᓂ ᐊᒥᐊᓕᑲᒥᐅᑦ-ᑲᓇᑕᐅᓪᓗ ᑭᒡᓕᖕᒐᓂ ᔫᑳᓐᒥ ᑎᑭᓪᓗᒍ ᐊᓘᑦ, ᓄᓇᕗᑦ. ᑖᒃᑯᐊ ᐊᑐᖅᑕᐅᓐᒃᑐᑦ ᐊᐅᓚᖃᑦᑕᕐᓂᐊᖅᐳᑦ ᓇᖕᒥᓂᖅ–ᐆᒻᒪᖅᑯᑎᖃᕐᓗᑎᒃ, ᓱᕋᒃᓴᕋᐃᖕᒋᓪᓗᑎᒃ ᐳᖅᑲᖅᓯᒪᓗᑎᒃ ᓴᓇᔭᐅᓯᒪᓪᓗᑎᒃ ᑲᔪᓰᓐᓇᕈᓐᓇᕐᓗᑎᒃ ᐊᒃᓱᕈᕐᓇᕋᓗᐊᖅᑎᓪᓗᒍ, ᓂᒡᓚᓱᒃᑐᐊᓗᖕᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓂᒡᓚᓱᖕᓂᕆᔭᐅᔪᒥ. ᐊᓯᐊᒍᑦ ᕿᓚᒥᑯᓗᒃ ᐅᓪᓗᓄᑦ 3-5–ᓄᑦ ᐋᖅᑭᒃᓱᐃᓂᕐᒧᑦ ᐊᕐᕌᒍᑕᒫᓪᓗ ᐋᖅᑭᐅᒪᑎᑦᑎᓂᕐᒧᑦ, ᓴᓇᕝᕕᖕᒥᑦᑐᖃᔅᖕᒋᑦᑐᖅ. ᖃᐅᔨᒋᐊᕐᓗᒍ ᐃᓚᓕᐅᑎᓯᒪᔪᖅ ᐱᓕᕆᐊᒃᓴᒧᑦ ᑎᑎᕋᖅᓯᒪᔪᖅ ᐃᓗᓕᓕᒫᖕᒋᓐᓄᑦ.

Personnel

Personnel on site: 30

Days on site: 5

Total Person days: 150

Operations Phase: from 2029-07-01 to 2032-08-01

Operations Phase: from 2029-09-01 to 2049-08-31

Post-Closure Phase: from to

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtailiyainnit nuna
Location 1	Other	Crown	n/a	n/a	n/a
Location 2	Other	Crown	n/a	n/a	n/a

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Qausuittuq	n/a	HTO	2025-01-01
Ausuittuq	HTO	HTO	2025-01-01

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

North Baffin

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Planning Commission	NIRB Exemption	Active	2026-08-10	
Pulaarviit Kaanata	Awaiting NIRB decision	Applied, Decision Pending		
Crown Indigenous Relations and Northern Affairs Canada	Exempt	Active	2026-09-16	

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	Chinook	

Project accomodation types

Temporary Camp

Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Iso Container	2	20' long x 8' wide x 8' high	Defence (1 container at each location)

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Methanol	fuel	1	2760	2760	Liters	Power for Direct Methanol Fuel Cells

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqtittagaani qanuq	Atulirumayain imavaluin utiqtittagani humi
0	n/a	n/a

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Other	Other, Garbage	0	The power generating containers are self contained and have 0 waste	deployment and Maintenance activities on site will ensure all waste is removed from each site upon departure.

Avatiliriniqmut Ayurhautingit:

Environmental Impact Assessment Mitigation Plan is still in draft form and will be completed as the project progresses leading up to (and including) engagement with regional partners, who can inform select aspects of the mitigation plan. We anticipate support from Defence Construction Canada (DCC) to provide specialized environmental support throughout 2027 which will feed into CROSSBOW environmental mitigation requirements or strategies as part of site assessments, deployment, and ongoing maintenance and life cycling. Defence Research and Development have already informed items such as: - Surface installations impact on ground shifting or subsidence, with visual inspections indicating 1" ground settling over a 3-year period. - Heat loss and long-term presence altering ground conditions, including IR images showing the heat gradient, and indicating no significant heat conduction to the ground. - Behavior of contaminants in permafrost environments; although no testing has been done as it would require a controlled methanol spill on the ground, however the design of the container assumes leakage is not expected into the environment given the seal of the container's walls and floor (assuming steel container). A design choice was also made not to place a drain hole in the floor to remove any spilled methanol. Methanol safety measures have been implemented, including methanol spillage alarms and MSDS instructions. - Use of solar PV/wind turbines/DMFCs/batteries was proven to provide a polar night power and energy solution in the Arctic. - Methanol is contained in discrete 60L cartridges, so meets the transportation requirements for RCAF heavy lift aircraft, and was chosen over diesel for its function at sub-zero temperatures without a direct heating solution, providing longer operation with less (L) fuel on site, as well as methanol's compatibility with fuel cells to bridge the charging gap when solar/wind resources are not available during polar nights.

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

Qanurittuq Ittunik Avatinga: Avatingalluanga

National Park, remote

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

National Park, remote

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

n/a, remote area

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Minimal impacts, non-disruptive to the land, no permanent foundation is required.

Tamatkiumayunik Ihuikgutivaktunik

Minimal cumulative effects

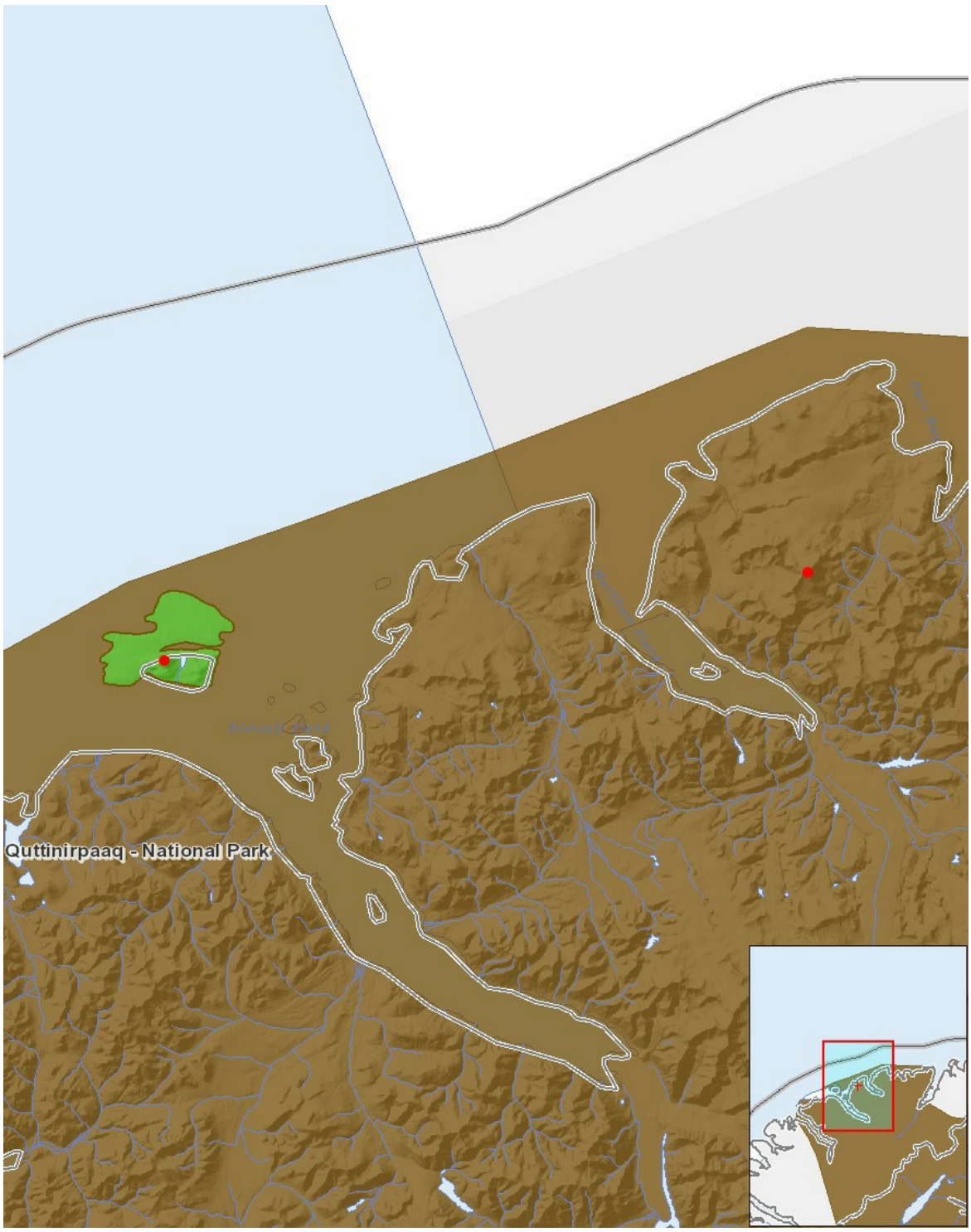
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhautingit

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Havakvinga																									
Other		N	N	-	-	-	-	-	M	-	-	N	N		-	-	-	-	-		-	-	-	-	-
Aulapkaininnga																									
Other		N	M	-	-	-	-	-	M	-	-	N	N		-	-	-	-	-		-	-	-	-	-
Piiqtauniq																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	point	Location 1
2	point	Location 2