



NIRB Uuktuutinga Ihivriuhikhamut #125417 FOX-M, Hall Beach Water Use Licence Renewal

Uuktuutinga Qanurittuq: New
Havaap Qanurittunia: Defence
Uuktuutinga Ublua: 10/29/2018 1:39:22 PM
Period of operation: from 0001-01-01 to 0001-01-01
Piumayaat Angirutinga: from 0001-01-01 to 0001-01-01
Havauhikhaq Ikayuqtinga: Jeremy Laflamme
DND
455 Boulevard de la Carriere
Gatineau Quebec J8Y 6V7
Canada
Hivayautit Nampanga:: 8199394934, Kayumiktukkut Nampanga::

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunangga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaliyainnit nuna
FOX-M, Main site	Site Cleanup/Remediation	Crown	FOX-M was built in the 1950's as one of the Distant Early Warning Line (DEW Line) radar sites. In the 1980's, the DEW line in Canada evolved into the North Warning System (NWS). FOX-M was modernized as part of this transition. Over the years, the Prime Mission of the radar sites remains unchanged: to detect airborne objects within the Arctic surveillance area.	Two previously recorded sites occur in the vicinity of FOX-M. The recorded locations of both of these sites place them well off of the site facilities.	Hall Beach, Nunavut, is 3 km north of FOX-M by road.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Information is not available			

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

South Baffin

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Imaligiyyit Katimayit	Water licence 3BC-FOH0919	Active	2009-09-10	2019-08-31
Nunavut Imaligiyyit Katimayit	Water licence number to be determined. This licence is to replace 3BC-FOH0919. Dates are estimates only.	Not Yet Applied	2019-03-31	2029-03-31

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	Transportation to the site is by commercial aircraft. Helicopter and fixed wing aircraft are used to access adjacent sites	
Water	Transportation of bulk materials, drygoods and fuel to the site is completed by ship.	
Land	Travel around the site is by pick-up truck. Heavy equipment is used as required.	

Project accomodation types

Permanent Camp

Alaanut,

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Loader	1	7x3.8x2.3 m	Earthworks, snowclearing
Grader	1	9.1x2.5x3 m	Road maintenance
Pickup truck	4	5.8x2x2.4 m	Transportation
Water truck	1	3x5x2.7 m	Moving water on-site
Dump truck	1	3x5.8x2.7 m	Earthworks, snow clearing
Fuel truck	1	3x5x2.7 m	Moving fuel on-site
Dozer	1	5.8x3.4x3.6 m	Earthworks, snow clearing
Mini-excavator	1	3x2.2x1 m	Earthworks

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Ataattimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Aviation fuel	fuel	4	946300	3785200	Liters	Power generation
Aviation fuel	fuel	2	50000	100000	Liters	Power generation
Aviation fuel	fuel	1	4125	4125	Liters	Vehicle refuelling
Aviation fuel	fuel	2	69200	138400	Liters	Aviation
Aviation fuel	fuel	2	50000	100000	Liters	Building heating
Aviation fuel	fuel	1	4500	4500	Liters	Building heating
Aviation fuel	fuel	2	5200	10400	Liters	Building heating
Oil	hazardous	25	205	5125	Liters	Engine maintenance
Glycol	hazardous	2	205	410	Liters	Site maintenance
Paint	hazardous	1	205	205	Liters	Site maintenance
Batteries	hazardous	1	205	205	Liters	Power generation

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
6	Water line / Water truck	Man-made water reservoir

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Other	Ikulalaaqtun iqqakuuvaluin	18000 kg	Hamlet of Hall Beach Landfill	None
Landfarm	Hivuuranaqtun iqqakuuvaluin	To be determined	Hydrocarbon impacted soil may be disposed of in a landfarm, if approved.	See attached document Annex A3 - FOX-M Landfarm Plan.pdf for details.
Other	Hivuuranaqtun iqqakuuvaluin	45 drums, 2 crates	Licensed Waste HAZMAT Disposal Facility (off-site)	None
Other	Anaagun (inuin anaaguin)	1,200,000 L	Discharged to the environment	Prior to discharge, the waste is treated with a tertiary sewage treatment plant

Avatiliriniqmut Ayurhauingit:

Potential impact: IF hydrocarbon impacted soil is not properly handled THEN the amount of impacted soil could increase Mitigation: Impacted soil will be handled as described in the attached document Annex A3 - FOX-M Landfarm Plan regarding construction, operation, environmental control, and closure of the landfarm.

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

The North Warning System Owice (NWSO) occasionally has arequirement to remediate spills on-site. Given the wortinvolved, landfarming impacted soil will only be consideredwhere it is the best option for remediating a spill (e.g. treating the soil from a large spill instead of shipping it off-site for treatment).See the attached document Annex A3 - FOX-M Landfarm Plan.pdf for details.

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

See attached document Annex Q3 - FOX-M Site Description.pdf

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

See attached document Annex Q3 - FOX-M Site Description.pdf

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

FOX-M is located approximately 3 km south of the community of Hall Beach. Hall Beach has a population of approximately 850 people.The Nunavut Planning Commission (NPC) has determined that this project proposal is outside the area of an applicableregional land use plan.

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikiikliyuumiutinahuarutit

The attached document Annex Q2 - Spill Contingency Plan.pdfincludes a risk analysis of spills on the North Warning System(Table 8-1), including the impact, probability, and mitigations.

Tamatkiumayunik Ihuikgutivaktunik

None noted.

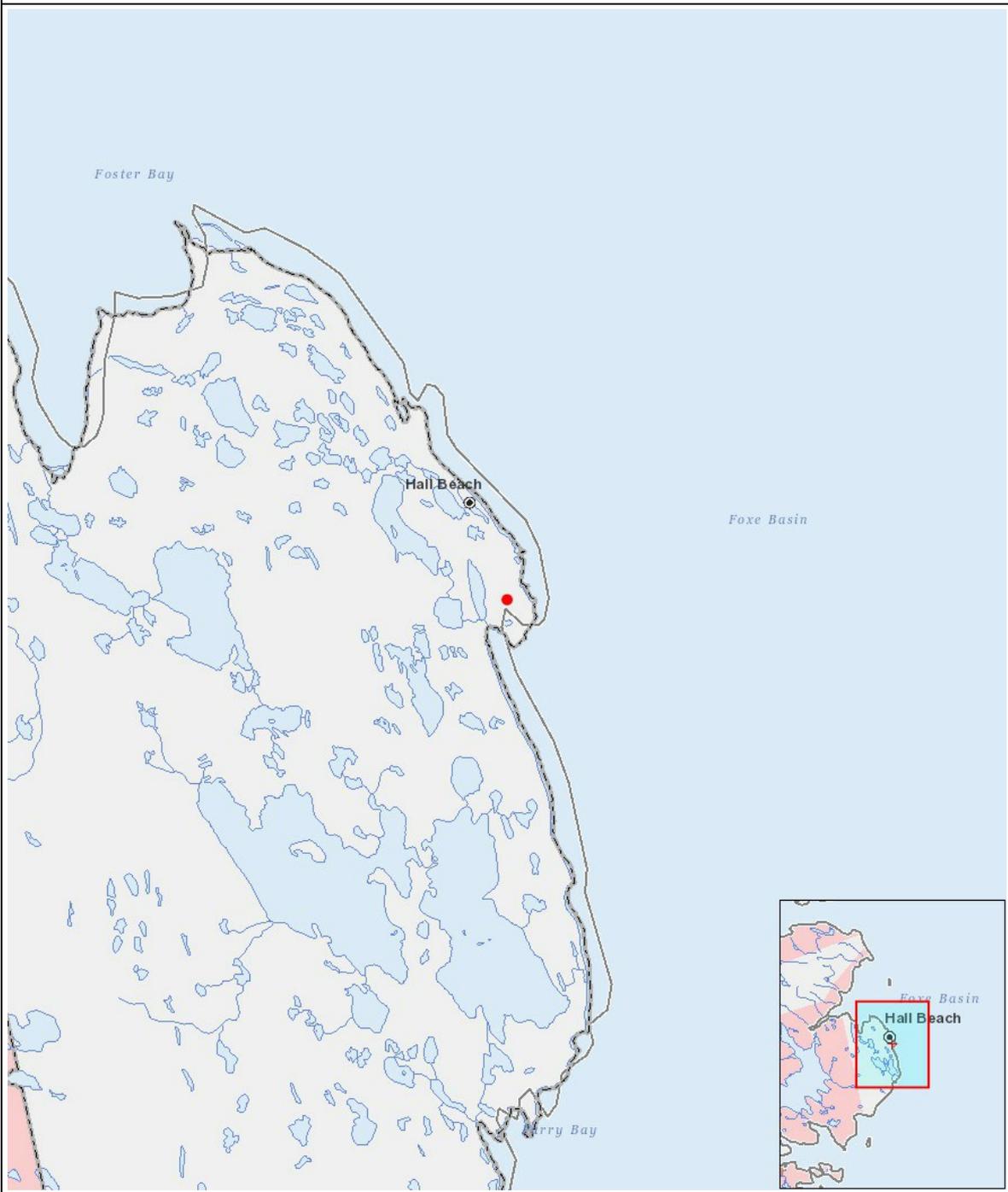
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhauingit

	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																									
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Aulapkaininnga																									
Site Cleanup/Remediation	-	-	-	-	-	-	-	-	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piiqtauniq																									
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(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyayuq)

PROJECT MAP



LIST OF PROJECT GEOMETRIES:

1	point	FOX-M, Main site
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