



Demande de la CNER faisant l'objet d'un examen préalable #125417 FOX-M, Hall Beach Water Use Licence Renewal

Type de demande : New

Type de projet: Defence

Date de la demande : 10/29/2018 1:39:22 PM

Period of operation: from 0001-01-01 to 0001-01-01

Autorisations proposées: from 0001-01-01 to 0001-01-01

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DÉTAILS

Description non technique de la proposition de projet

Anglais: The North Warning System in Canada is a chain of unmanned radar sites that provides aerospace surveillance, established to detect and allow for an early response to potential threats entering North American air space. It is part of Canada's North American Aerospace Defense Command (NORAD) agreement with the United States, and an essential capability in our efforts to maintain Canada's sovereignty. Raytheon Canada Limited has the contract with the Department of National Defence to operate and maintain the North Warning System radar site FOX-M, Hall Beach. FOX-M is situated in Nunavut in the Qikiqtani Region on the Melville Peninsula; it is on the eastern side of a coastal plain that extends from Hall Lake to Foxe Basin. The nearest community is Hall Beach which is 3 km away by road. FOX-M is a Long Range Radar Site (LRR) and a Logistics Support Site for the North Warning System. FOX-M is staffed with an annual average site population of 18 to 22 people per day. Site numbers increase during the summer due to seasonal construction and occasional large groups of Third Party visitors. FOX-M is one of 11 LRRs of the North Warning System; the LRRs are located across the Yukon, Northwest Territories, Nunavut, and down the Labrador coast. The facilities are remotely monitored and controlled from North Bay on a 24/7 basis. The information they receive is automatically sent to the Canadian Air Defence Sector located at 22 Wing, CFB North Bay over a long-haul satellite communications network.

Français: N/A

[illegible]

Inuinnaqtun: N/A

Personnel

Personnel on site: 18

Days on site: 365

Total Person days: 6570

Operations Phase: from 2019-03-31 to 2029-03-31

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
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.

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Information is not available			

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

South Baffin

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Office des eaux du Nunavut	Water licence 3BC-FOH0919	Active	2009-09-10	2019-08-31
Office des eaux du Nunavut	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	Utilisation proposée	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

Autre,

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
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

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
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

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
6	Water line / Water truck	Man-made water reservoir

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Other	Déchets combustibles	18000 kg	Hamlet of Hall Beach Landfill	None
Landfarm	Déchet dangereux	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	Déchet dangereux	45 drums, 2 crates	Licensed Waste HAZMAT Disposal Facility (off-site)	None
Other	Eaux usées (matières de vidange)	1,200,000 L	Discharged to the environment	Prior to discharge, the waste is treated with a tertiary sewage treatment plant

Répercussions environnementales :

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 ewortinvolved, 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

Description de l'environnement existant : Environnement physique

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

Description de l'environnement existant : Environnement biologique

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

Description de l'environnement existant : Environnement socio-économique

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

Identification des répercussions et mesures d'atténuation proposées

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.

Répercussions cumulatives

None noted.

Impacts

Identification des répercussions environnementales

	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
Construction																									
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Exploitation																									
Site Cleanup/Remediation		-	-	-	-	-	-	-	-	N	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Désaffectation																									
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(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

PROJECT MAP



LIST OF PROJECT GEOMETRIES:

1	point	FOX-M, Main site
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