



## **Demande de la CNER faisant l'objet d'un examen préalable #125731 DRDC - Northern Watch Technology Demonstration Project (NWTD)**

**Type de demande :** New

**Type de projet:** Scientific Research

**Date de la demande :** 7/19/2022 12:23:33 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: See attached project documents

Français: See attached project documents

Inuktitut: See attached project documents

Inuinnaqtun: See attached project documents

## Personnel

Personnel on site: 7

Days on site: 4

Total Person days: 28

Operations Phase: from 2022-08-01 to 2022-09-30

## 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
DUSN node	Researching	Marine	N/A	N/A	Lancaster Sound/Baffin Bay
AAR1	Researching	Marine	N/A	N/A	Arctic Bay, NU
AAR2	Researching	Marine	N/A	N/A	Pond Inlet, NU
AAR3	Researching	Marine	N/A	N/A	Qikiqtaruaq, NU
GBY 100-km waypoint	Researching	Marine	N/A	N/A	Baffin Bay/Davis Strait
DUSN1	Researching	Marine	N/A	N/A	Pond Inlet, NU
DUSN2	Researching	Marine	N/A	N/A	Pond Inlet, NU

### Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Qikiqtarjuaq	QIA	QIA	2022-05-12

## Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Transboundary  
North 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	8WLC-NWT2223 – Approval for the Use of Waters and Deposit of Waste Without a Licence	Active	2022-07-15	2023-07-14
Institut de recherche du Nunavut	Scientific Research Licence Application	Applied, Decision Pending		
Nunavut Tunngavik Inc	Request for information sent	Applied, Decision Pending		
Gouvernement du Nunavut, ministère de l'Environnement	Request for information sent	Applied, Decision Pending		
Qikiqtani Inuit Association	Request for information sent	Applied, Decision Pending		
Autre	Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) Request for information sent	Applied, Decision Pending		

### Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Water	Royal Canadian Navy (RCN): •Her Majesty's Canadian Ship (HMCS) HARRY DEWOLF (HDW) (Harry Dewolf Class) •HMCS MARGARET BROOKE (MAR) (Harry Dewolf Class) •HMCS GOOSE BAY (GBY) (Kingston Class)	

### Project accomodation types

Temporary Camp

## 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
Sea Robotics USV-2600 (USV i.e. Uncrewed Surface Vessel)	1	1000 lbs	Collection of high-frequency (450 kHz) sonar data to evaluate the performance characteristics of this sonar in the arctic ocean where the presence of freshwater layers affect the sound velocity profile.
RF Float	1	70 lbs	For DUSN communications
DUSN	1	450 lbs	To record information
AUV	1	22.75’’L x 3.89’’H x 1.14’’D	- IVER-3 (Klein UUV3500)- IxBlue C3 Inertial navigation system
CTD sensor	1	2.8’’L x 8.0’’H	- Conductivity / Temperature/ depth sensor
AIS TX	1	6.5’’ (W) × 4.3’’ (H) × 3.6’’ (D)	Portable automatic identification system transmitter
Slocum glider	1	1.79m L x 1.01m W x 0.49m H	Long range remote water observation
Acoustic recorders	3	74mm W x 101mm H x 28mm D	Biodiversity assessment
HMCS HDW (Navy ship)	1	105m X 19m	Transport
HMCS MAR (Navy Ship)	1	103m x 19m	Transport
HMCS GBY (Navy Ship)	1	55.3m x 11.3m	55.3m x 11.3m

### 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
Information is not available						

### Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

# Déchets

## Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

## Répercussions environnementales :

There will be written navigational warnings (NAVWARNs) and notices to mariners (NOTMARs) serve to warn vessel operators about training activity timing and location. These notices contain important information about activities which should remain in effect for the duration of the exercise. However, it remains uncertain how effective these systems are in warning Indigenous communities and those who may be undertaking traditional activities. There are no expected permanent changes to the current condition or use of land (including coastal and marine area), air, water and resources. The exercises are temporary and will only take place for a few days at each location. There are no expected significant adverse effects on air, land or water due to Op NA-NK 2022 after proposed mitigation measures (in the additional information and project documents) are in place.

# **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**

**Description de l'environnement existant : Environnement physique**

**Description de l'environnement existant : Environnement biologique**

**Description de l'environnement existant : Environnement socio-économique**

**Miscellaneous Project Information**

**Identification des répercussions et mesures d'atténuation proposées**

**Répercussions cumulatives**

Impacts

Identification des répercussions environnementales

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eschers 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exploitation		U	U	U	-	U	U	U	U	U	U	U	U		U	M	M	M	U		U	U	U	U	U
Désaffectation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

## Site du projet



## Liste des géométries de projet

1	point	DUSN node
2	point	USV 2600 (North-West edge of box)
3	point	USV 2600 (South-East edge of box)
4	point	AAR1
5	point	AAR2
6	point	AAR3
7	point	DUSN1
8	point	DUSN2
9	point	GBY 100-km waypoint
10	point	BRS trial