



Demande de la CNER faisant l'objet d'un examen préalable #126197

Qikiqtarjuaq Coastal Baseline Study – Open Water Work 2025

Type de demande : New

Type de projet: Scientific Research

Date de la demande : Monday, June 9, 2025

Period of operation: from 2025-09-07 to 2025-09-21

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DÉTAILS

Description non technique de la proposition de projet

Anglais: This project is part of the Coastal Environmental Monitoring Baseline Program, which is a federally mandated monitoring program that collects coastal marine baseline data. OBJECTIVES: 1) To collect spatial data on benthic and pelagic habitat use by biota (e.g., plankton, fish and invertebrates) near Qikiqtarjuaq, Nunavut during the open-water season. The study will also be designed to allow for comparisons of seawater, sediment and biota data in regions with and without human activity impacts. 2) To foster relationships with community members that are interested in studying the marine environment. STUDY AREA: Sampling stations have been determined in consultation with the Nattivak (Qikiqtarjuaq) Hunters and Trappers Association. We anticipate sampling up to 45 stations within 25 km of the community of Qikiqtarjuaq. SAMPLE DATES: Two weeks in September 2025. GENERAL METHODS AT EACH STATION: CTD profiles will be taken at each coastal station. Water samples (i.e., POM, nutrients, salinity, O₂, and phytoplankton) will be collected at multiple depths using Niskin bottles. A zooplankton net (150 µm) net will be towed vertically for taxonomy samples and a 500 µm net will be towed horizontally to collect high biomass samples for food-web studies and rapid zooplankton assessment. A subset of stations (12) will be sampled using shoreline seines to collect fish and a benthic dredge and grab will be used to collect invertebrates. Biological samples will be used for taxonomic purposes, life-history trait studies, and food web analyses. Video or photos of the general bottom habitat will also be collected at each station.

Français: N/A - only required for the City of Iqaluit according to guidelines.

[illegible]

Personnel

Personnel on site: 5

Days on site: 14

Total Person days: 70

Operations Phase: from 2025-09-07 to 2025-09-21

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
LFSP_- _Lewis_CoastalBaseline_2025	Sampling sites	Municipal	N/A	N/A	approx. 20 km from Qikiqtarjuaq

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Qikiqtarjuaq	Nattivak Hunters and Trappers Association (Chair - Tommy Atsanik)	Nattivak Hunters and Trappers Association	2025-03-17

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Hunters and Trappers Associations/Organizations	letter of support for research as per article 5 of the Nunavut Agreement	Active	2025-03-17	2025-12-31
Pêches et Océans Canada	licence to fish for scientific purposes and animal use protocol	Applied, Decision Pending	2025-04-07	2025-10-15

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Water	vessel owned by a local operator/outfitter in Qikiqtarjuaq	

Project accomodation types

Collectivité

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
one vessel	1	~ 8 m	for transportation to and from the sample locations (vessel will be owned by a local outfitter)
scientific equipment to collect data	one (see proposed use)	1-2 cubic meters	- collection of water and phytoplankton samples with Niskin bottle samplers- collection of zooplankton with zooplankton nets (about 0.5 m in diameter) and small hand-held dip nets- collection of environmental information using vertical CTDs (Conductivity, Temperature, Depth; Castaway CTD, Sontek & RBR CTD)- collection of benthic invertebrates with a grab sampler, small dredge or by hand-shoreline seine- sample jars

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
Gasoline	fuel	0	0	0	Gallons	fuel will be limited to the capacity of the vessel (about 25 G)
not applicable	hazardous	0	0	0	Gallons	not applicable to our study

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 :

The Baseline Program supports the collection of ecological data to describe the current state (baseline) of key coastal areas across Canada.

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

Marine sampling areas are adjacent to shipping routes and vessel traffic during the open water season. There is a National park to the South of our sampling sites and adjacent bird sanctuaries; however, none of our sample sites are within the boundaries of these areas. Some subsistence harvesting for seals, narwhal, fish, and clams occur within the general vicinity of this project. Some physical valued ecosystem components include a combination of physical (e.g., tides), biogeochemical (e.g., water characteristics), and substrate quality.

Description de l'environnement existant : Environnement biologique

The sampling areas overlap with important habitat for many marine mammals (e.g., seals, narwhal, Bowhead whales), fish (e.g., sculpins, Arctic Cod, Arctic Char), shellfish (e.g., sea urchins, clams) and a variety of coastal bird species. All of these species, including other lower trophic species (e.g., phytoplankton, zooplankton, invertebrates, seaweed) are valued ecosystem components.

Description de l'environnement existant : Environnement socio-économique

All marine sampling locations are within approximately 20 km of the Hamlet of Qikiqtarjuaq. The sampling areas are also adjacent to a national park, bird sanctuaries, and some subsistence harvesting areas. These areas are also important to many outfitters and harvesters from Qikiqtarjuaq.

Miscellaneous Project Information

This federally mandated monitoring program has been developed through close consultation with many key stakeholders. Our local co-management partner in Qikiqtarjuaq, the Nattivak Hunters and Trappers Association, has been involved in all planning, completion, and reporting activities related to this project. An annual letter of support has been provided by the Nattivak HTA as per article 5 of the Nunavut Agreement. Annual reporting back to the community has happened in annual (at a minimum) public meetings. This project has also been closely coordinated through ongoing discussions and input from the Hamlet. Furthermore, there is a large outreach component to our work, which involves regular hands-on activities with students from the local school.

Identification des répercussions et mesures d'atténuation proposées

Sampling events and locations will be adjusted to avoid other vessel traffic/operations.

Répercussions cumulatives

n/a

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																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Exploitation																									
Sampling sites		-	-	-	-	P	P	-	-	P	P	-	-		-	-	-	P	-		-	P	P	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Site du projet



Liste des géométries de projet

1	point	LFSP_-_Lewis_CoastalBaseline_2025
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