



## **NIRB Application for Screening #126003**

### **Mapping nearshore coastal habitats and associated macroflora and fauna in the Qikiqtarjuaq area**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** 9/24/2024 2:23:23 PM

**Period of operation:** from 2024-08-07 to 2027-10-23

**Project Proponent:** Justine Sutherland  
Fisheries and Oceans Canada  
501 University Crescent  
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Canada  
Phone Number:: 431-334-2759, Fax Number::

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Personnel on site: 3  
Days on site: 15  
Total Person days: 45  
Operations Phase: from 2024-08-07 to 2027-10-23

# Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Qikiqtarjuaq OPP 2024 sampling area	Baseline data	Marine	2023 was the first year of field research related to the overarching OPP project in Qikiqtarjuaq in which several researchers took part in baseline data collection. No other historical information known	not known	within 15 km of Qikiqtarjuaq, NU

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Qikiqtarjuaq	Billy Arnaquq	Nunavut Experience Outfitting	2024-04-28
Qikiqtarjuaq	Board members	Qikiqtarjuaq Hamlet	2024-08-24
Qikiqtarjuaq	Board members	Qikiqtarjuaq Hunters and Trappers Association	2024-08-18
Qikiqtarjuaq	Saki Arnaquq	Nunavut Experience Outfitting	2024-04-28
Qikiqtarjuaq	Raymond	Nunavut Experience Outfitting	2024-08-15

# Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Fisheries and Oceans Canada	License to Fish for scientific purposes - DFO License number: S-24/25-1055-NU	Active	2024-08-07	2025-03-31

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	Boat rented from Nunavut Experience Outfitting	

## Project accomodation types

Community

Other,

## Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
boat	1	28 foot	The boat will be rented from a local community member and will be used to get from town to each of the selected sites to perform field work (capture photos)

### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	10	25	250	Liters	As much fuel as needed for the boat over a period of 10-12 sampling days. This will depend on the distance travelled and weather conditions.

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Marine Based Activities	Other, gasoline fumes	depends on volume of gasoline used	Consequence of travelling by boat - no disposal methods in place for gasoline fumes.	NA

## Environmental Impacts:

Despite mitigating risks, there is still a chance that equipment be lost during sampling and that there be potential damage to sea floor habitats due to inclement weather or equipment failure. These will be minimized as much as possible at all times throughout the project. Mitigation measures were used in previous work and showed to be very efficient.

# **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 of Existing Environment: Physical Environment**

This work will provide maps describing where potentially sensitive marine environments are located for use in future research and by the community for relevant activities and archival of knowledge.

### **Description of Existing Environment: Biological Environment**

There is limited information on what the underwater biological environment is like around Qikiqtarjuaq and this project aims to generate a better knowledge of this.

### **Description of Existing Environment: Socio-economic Environment**

We already have a good relationship with the Qikiqtarjuaq Hamlet and MHTO, and have been encouraged by these organizations in doing this work to be able to provide the community with habitat maps as well as continue to generate employment over the duration of the project.

### **Miscellaneous Project Information**

### **Identification of Impacts and Proposed Mitigation Measures**

Potential impacts for this project are minimal since no waste is generated however there is always a chance that equipment is lost during sampling due to unforeseen circumstances such as snags underwater, etc. that could damage aquatic life, human error such as not tying equipment on tight enough or even equipment failure such as hardware breaking, housings holding cameras falling off the frame, etc. this will be minimized by always working slowly and checking attachment points for gear, avoiding dragging the camera frame on the sea floor to avoid snags and damaging aquatic life, and only working in good/safe weather conditions to minimize potential for dragging (allowing boat captain to keep boat steady).

### **Cumulative Effects**

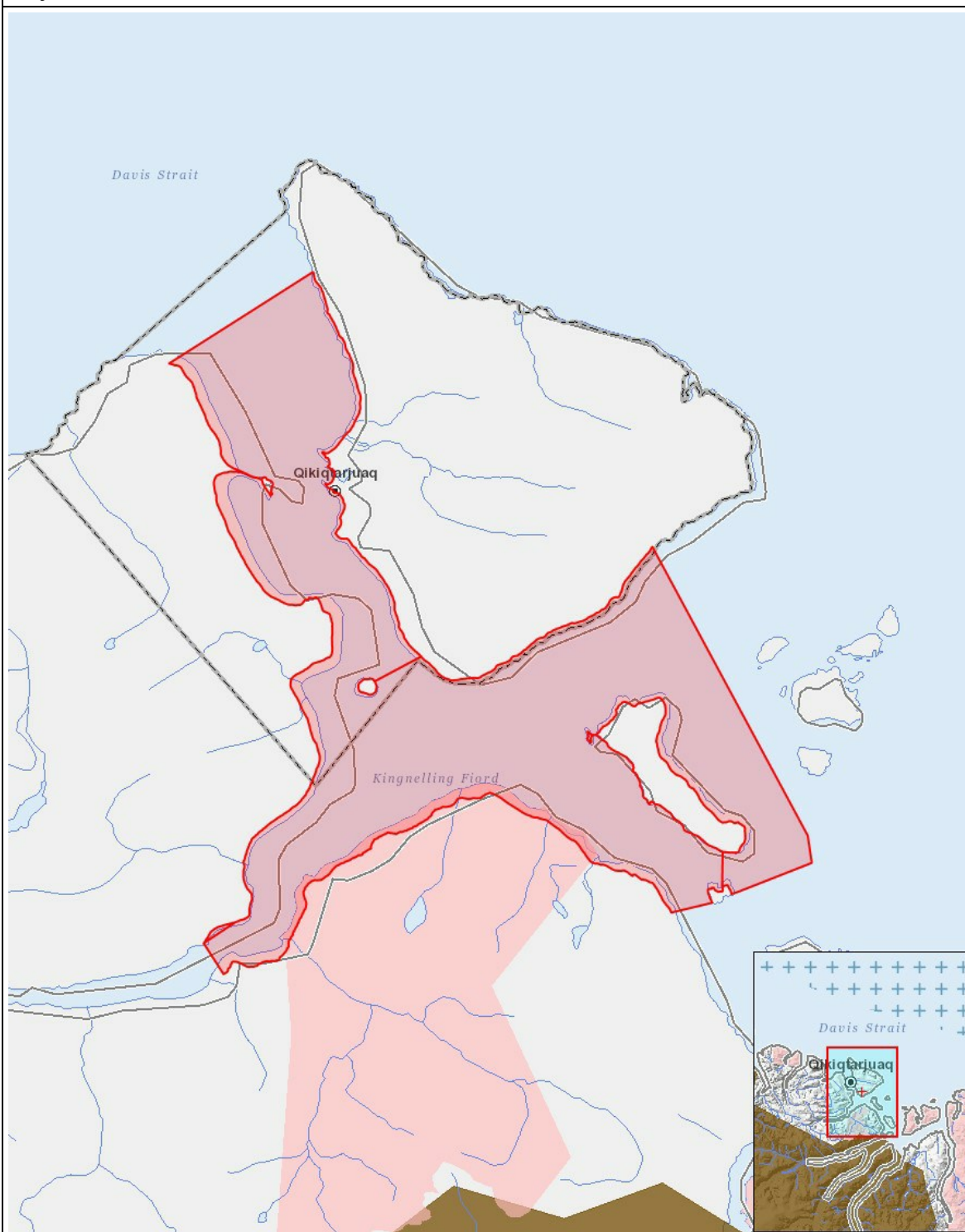
Impacts

Identification of Environmental Impacts

	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation																									
Baseline data		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	M	-		-	P	-	-	-
Decommissioning																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

## Project Location



## List of Project Geometries

1	polygon	Qikiqtarjuaq OPP 2024 sampling area
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