



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 2024-08-09 to 2027-10-25

Project Proponent: Justine Sutherland
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Canada
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DETAILS

Non-technical project proposal description

English: See attached document

French: See attached document

Inuktitut: See attached document

Personnel

Personnel on site: 3

Days on site: 15

Total Person days: 45

Operations Phase: from 2024-08-09 to 2027-10-25

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
Information is not available				

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

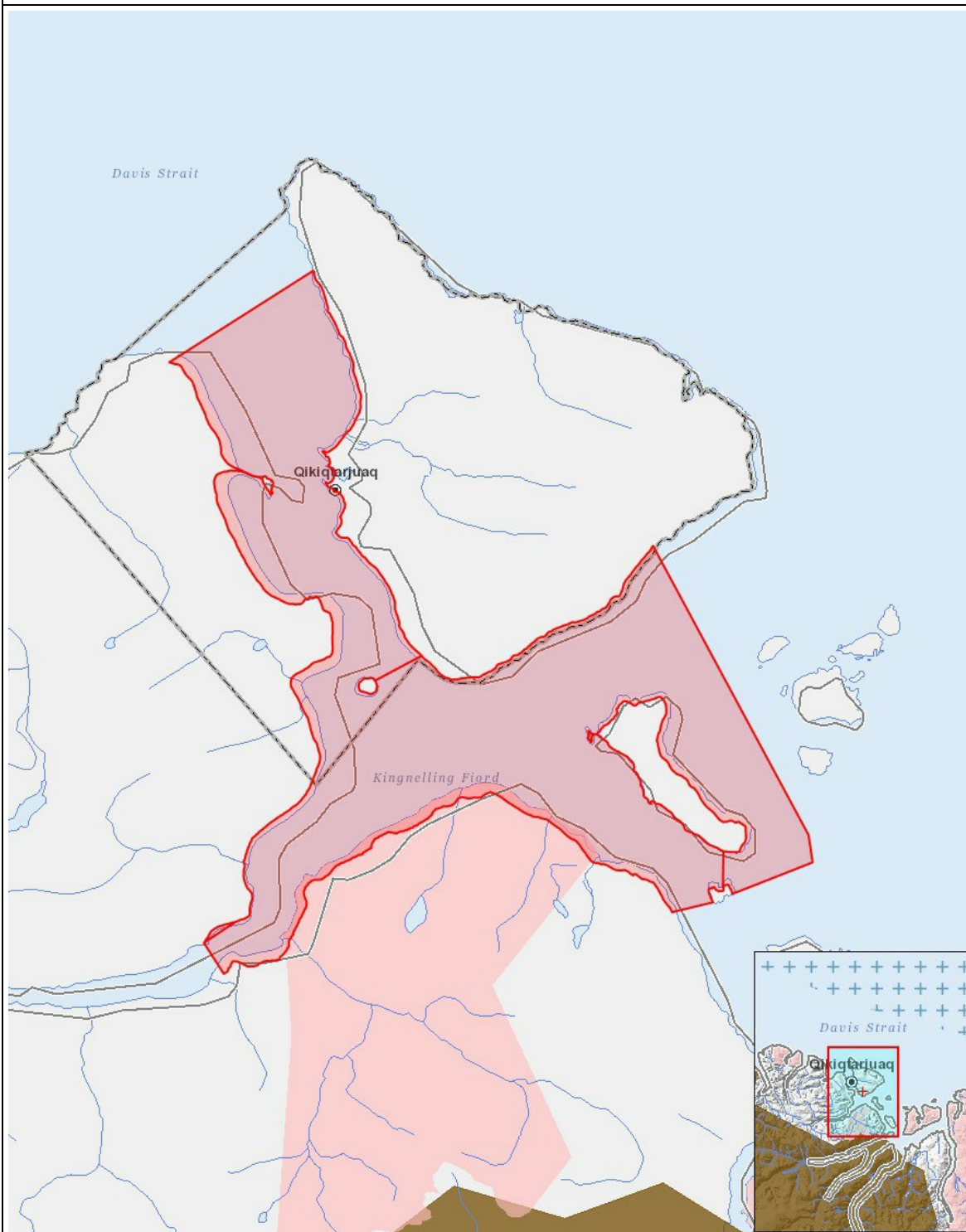
Impacts

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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