



NIRB Application for Screening #125478

Microplastics in beach sediment: Collecting baseline data for microplastic contamination around Iqaluit, Nunavut, and developing tools for effective community-based monitoring

Application Type: New

Project Type: Scientific Research

Application Date: 8/9/2019 12:24:30 PM

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

Proposed Authorization: from 0001-01-01 to 0001-01-01

Project Proponent: Madelaine Bourdages
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Canada
Phone Number:: 6048451507, Fax Number::

DETAILS

Non-technical project proposal description

English: Please see attached document.

French: Please see attached document.

Inuktitut: Please see attached document.

Personnel

Personnel on site: 2

Days on site: 5

Total Person days: 10

Operations Phase: from 2019-09-23 to 2019-09-27

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Site 1	Sampling sites	Municipal	NA	NA	Within Iqaluit
Site 2	Sampling sites	Municipal	NA	NA	Within Iqaluit
Site 3	Sampling sites	Municipal	NA	NA	Within Iqaluit
Site 4	Sampling sites	Municipal	NA	NA	Within Iqaluit
Site 5	Sampling sites	Municipal	NA	NA	Within Iqaluit

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Iqaluit	Jamal Shirley	Nunavut Research Institute	2018-11-01
Iqaluit	Dan Martin	Nunavut Arctic College	2018-11-01
Iqaluit	Jason Carpenter	Nunavut Arctic College	2018-11-01

Authorizations

Indicate the areas in which the project is located:

South Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	Submitted application to NRI on July 15, 2019.	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	Access to the sampling sites will be by foot.	

Project accomodation types

Community

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Information is not available			

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Information is not available						

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:

We do not foresee any impacts on the environment, wildlife or people as a result of this study or the sample collection. We will not collect any sediment that is being used by wildlife, and if at any time there is a threat to disturbing wildlife, all sampling will stop. No equipment or waste will be left on site, and access to the sampling locations will be by foot.

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

Samples will be collected from publicly accessible beaches in Iqaluit.

Description of Existing Environment: Biological Environment

Description of Existing Environment: Socio-economic Environment

Samples will be collected from publicly accessible beaches in Iqaluit.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

We do not foresee any impacts on the environment, wildlife or people as a result of this study or the sample collection. We will not collect any sediment that is being used by wildlife, and if at any time there is a threat to disturbing wildlife, all sampling will stop.

Cumulative Effects

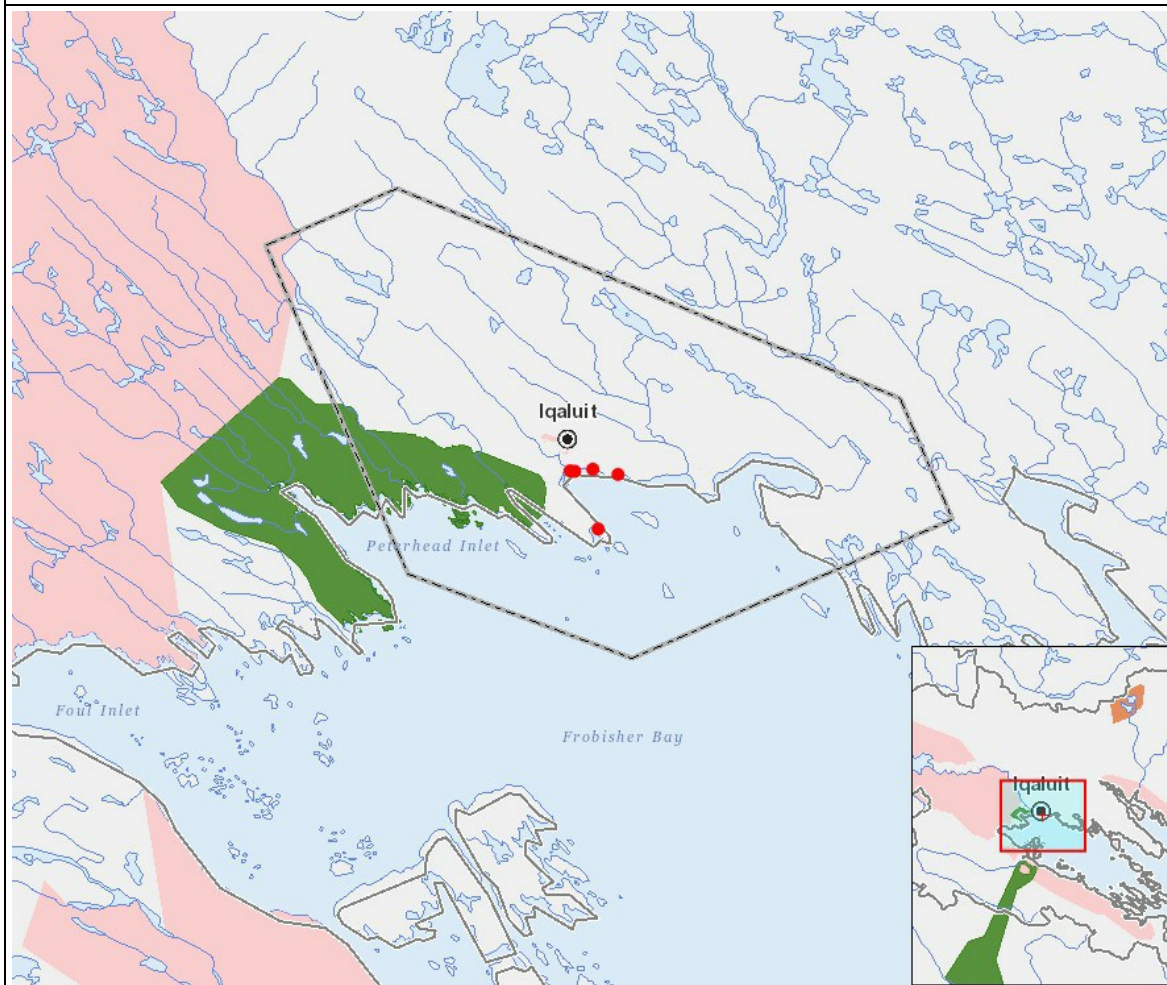
Impacts

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

Project Location



List of Project Geometries

1	point	Site 1
2	point	Site 2
3	point	Site 3
4	point	Site 4
5	point	Site 5