



NIRB Application for Screening #125655

Shift-eDNA

Application Type: New

Project Type: Scientific Research

Application Date: 2/4/2022 10:43:58 AM

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

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

Project Proponent: Loïc Sanchez
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Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Sample 1 - Lady Ann Strait	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 2 - Sirmilik	Scientific/International Polar Year Research	Marine	N/A	N/A	Sirmilik National Park/Pond Inlet
Sample 3 - Paterson Inlet	Scientific/International Polar Year Research	Marine	N/A	N/A	Pond Inlet
Sample 4 - Isabella Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Clyde River
Sample 5 - Home Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Qikiktarjuaq
Sample 6 - Exeter Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Qikiktarjuaq
Sample 7 - Hoare Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Pangnirtung
Sample 8 - Outer Cumberland Sound	Scientific/International Polar Year Research	Marine	N/A	N/A	Pangnirtung
Sample 9 - Cyrus Field	Scientific/International Polar Year Research	Marine	N/A	N/A	Iqaluit
Sample 10 - Hudson Strait	Scientific/International Polar Year Research	Marine	N/A	N/A	Iqaluit
Sample 11 - Hospital Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 12 - Sverdrup Channel	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 13 - Aurland Fiord	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 14 - Henson Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 15 - Yelverton Bay	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord
Sample 16 - Ayles Fiord	Scientific/International Polar Year Research	Marine	N/A	N/A	Grise Fiord / Quttinirpaaq National Park

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Clyde River	Joshua	Nangmautaq HTA	2022-01-19
Pond Inlet	Jennifer	Mittimalik HTO	2022-01-19
Iqaluit	amaruq@baffinhto.ca	Amaruq Hunters & Trappers Association	2022-01-19
Grise Fiord	gfiviq_hta@qiniq.com	Iviq Hunters & Trappers Association	2022-01-19
Pangnirtung	pang@baffinhto.ca	Pangnirtung Hunters &	2022-01-19

		Trappers Organization	
Qikiqtarjuaq	nattivak_hta@qiniq.com	Nattivak Hunters & Trappers Association	2022-01-19

Authorizations

Indicate the areas in which the project is located:

North Baffin
South Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Hunters and Trappers Associations/Organizations	I have contacted all concerned HTAs/HTOs and asked to consult with them. For now, I have received an answer from the Nangmautaq HTA, who said the board would review the project.	Applied, Decision Pending	2022-01-19	
Transport Canada	I have contacted both Transport Canada and Global Affairs, I am still waiting to see if I need a licence.	Not Yet Applied	2022-01-21	
Fisheries and Oceans Canada	I have contacted the Department of Fisheries and Oceans, who indicated we did not need a licence because we only filter seawater, we do not sample fish or fish parts.	Not Yet Applied	2022-01-05	

Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	We will use a boat to go from Grise Fiord to Saint Pierre & Miquelon	

Project accomodation types

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Sailing Boat	1	15.3x4.2m	The sailing boat will be used to transport our team from Grise Fiord to the southern parts of Nunavut.
Athena Peristaltic Pump	2	22x33x17 cm	The peristaltic pump is a pump used to filter DNA in surface waters, without any contamination.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	1	4500	4500	Liters	In case of headwinds that would not let us sail

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
Waste disposal	Sewage (human waste)	4 people / 1 month	Can be disposed either in the water or burned on land	-

Environmental Impacts:

Our protocol only requires to filter seawater, and thus produce no environmental impacts

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

Description of Existing Environment: Biological Environment

Description of Existing Environment: Socio-economic Environment

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Cumulative Effects

Impacts

Identification of Environmental Impacts

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

Project Location



List of Project Geometries

1	point	Sample 1 - Lady Ann Strait
2	point	Sample 2 - Sirmilik
3	point	Sample 3 - Paterson Inlet
4	point	Sample 4 - Isabella Bay
5	point	Sample 5 - Home Bay
6	point	Sample 6 - Exeter Bay
7	point	Sample 7 - Hoare Bay
8	point	Sample 8 - Outer Cumberland Sound
9	point	Sample 9 - Cyrus Field
10	point	Sample 10 - Hudson Strait
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13	point	Sample 13 - Aurland Fiord
14	point	Sample 14 - Henson Bay
15	point	Sample 15 - Yelverton Bay
16	point	Sample 16 - Ayles Fiord