



## **NIRB Application for Screening #125364**

### **Crocker Bay Study and NW Passage to Gjoa Haven**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** 6/27/2018 10:46:41 PM

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

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

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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
NW Passage, Croker Bay	Marine Based Activities	Marine	N/A	N/A	Pond Inlet, Gjoa Have, and Resolute

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

# Authorizations

Indicate the areas in which the project is located:

Transboundary  
Kitikmeot  
North Baffin

## Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	NPC No 148838	Active	2018-06-19	2018-08-28

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	recreational yacht	

## Project accomodation types

Other,

# Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
yacht	1	39 feet	cruise, research
Might have backup instrument: USB2000+	1	0.1m	Back up sea surface observations, temperature
RBR Conductivity, temperature and sound speed (CTD) probe	1	0.3	surface and water column data

## Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	3	300	900	Gallons	inboard engine when needed

## Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
1	Carry drinking and washing water needs from Greenland	Greenland

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Marine Based Activities	Other, kitchen rubbish	2 bags	leave stowed in vessel	n/a

## Environmental Impacts:

More collaborative research discoveries between Canadian agency and academic researchers with US academic researchers.

# **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**

Survey observations regarding the ice and ocean physical and environmental conditions in the NW Passage and Crocker Bay.

## **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**

7/12/2018 Additional details request: As the Canadian vessel approaches the Northwest Passage the Canadian Captain will assess the ice conditions to determine if the 2 Americans can be checked into the country in a navigable open port. If conditions do not permit stopping in Pond Inlet then the Canadian Captain will call the proper authorities to provide arrival Passport information and details for checking in the 2 Americans. All aboard are familiar with this process. The 2 Americans are planned to depart from Gjoa Haven and fly back to the US around the 25th of August. If ice conditions do not allow the 2 Americans may depart from a different ice free harbor town such as Resolute or Pond Inlet. The two Canadians will continue on through the Northwest Passage keeping to the Canadian Coast Guard mandatory 24 hour position check in and departure from Canadian waters. The two Canadians continue through the Northwest Passage to International waters and then Alaska.

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

### **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
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>																									
Marine Based Activities	-	-	-	-	-	P	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

PROJECT MAP



LIST OF PROJECT GEOMETRIES:

- |   |          |                        |
|---|----------|------------------------|
| 1 | polyline | NW Passage, Croker Bay |
|---|----------|------------------------|