

Days on site: 21

Total Person days: 84

Operations Phase: from 2019-05-03 to 2019-08-04

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
AFR Lake - Research and temporary camp location. No known archaeological sites in the area.	Camp	Crown	No one has visited this lake that we know of. It was covered by ice until about 10 years ago	None known	35 km from Pond Inlet
CF8 Lake - Research and temporary camp location. Visited in Aug. 2017. No known archaeological sites in the area.	Camp	Inuit Owned Surface Lands	We have visited this site previously in August of 2017 to collect a preliminary lake sediment sample.	None known	16 km from Clyde River

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Pond Inlet	Charlie Inuarak, Mayor	Town Council	2019-02-11
Clyde River	Joshua Akavak	Iisaqsivik	2018-11-14

Authorizations

Indicate the areas in which the project is located:

North Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	Request permit for scientific research	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	PCSP Helicopter, Ken Borek Twin Otter	
Land	Walking, snowmobile, ATV	

Project accomodation types

Temporary Camp

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Lake sediment core system	1	1x3 m	This is a hand operated system that pushes a plastic pipe into the mud at the bottom of a lake to recover a continuous sample of lake mud about 7 cm in diameter. Most lakes have 1 to 2 m of mud in them,
Snowmobile	2	1x3 m	Transport team from Clyde River to lake CF8; two snowmobiles to remain in camp for emergencies
Ice Auger	1	0.2 by 2 m	Drill hole in lake ice
PCSP Helicopter	1	3 b 10 m	Transport team of 3 from Pond Inlet to lake AFR and return them to Pond Inlet at end of season. No other way to reach lake AFR

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
None	hazardous	0	0	0	Gallons	none
Gasoline	fuel	10	1	10	Liters	Stove Fuel
Gasoline	fuel	4	5	20	Gallons	Fuel for snowmobiles and ice auger

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	From the lake in buckets using hole in lake ice made by ice auger	AFR1 Lake, CF8 Lake

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Scientific/International Polar Year Research	Sewage (human waste)	4 persons for 21 days (2 different locations)	burial; biodegradable waste paper	Sewage will be buried at least 100 m from nearest water source

Environmental Impacts:

We will camp in a tent and cook food on a coleman stove. All human waste will be more than 100m from the nearest water. We expect no measurable environmental impact.

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

AFR is a small lake (0.7 x 0.4 km) close to ice caps and 35 km from Pond Inlet. CF8 is also a small lake (0.3 x 0.2 km) located 16 km from Clyde River.

Description of Existing Environment: Biological Environment

Polar desert

Description of Existing Environment: Socio-economic Environment

None known

Miscellaneous Project Information

All our gear and all camp waste other than buried human waste will be taken out by helicopter (AFR lake) or snowmobile (CF8 lake)

Identification of Impacts and Proposed Mitigation Measures

No significant impacts

Cumulative Effects

No cumulative effects expected

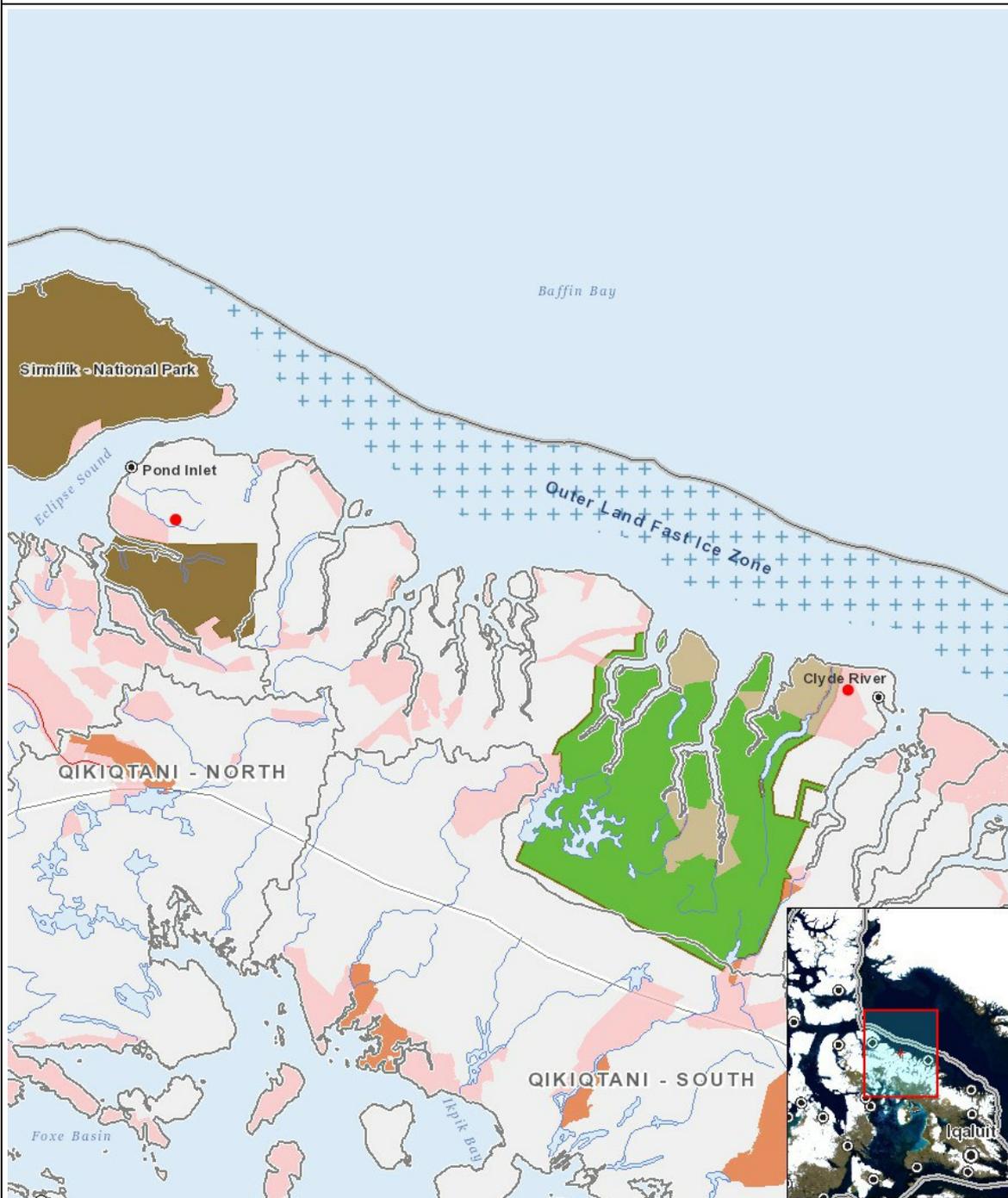
Impacts

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																									
Camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	
Decommissioning																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Project Location



List of Project Geometries

- 1 point CF8 Lake - Research and temporary camp location. Visited in Aug. 2017. No known archaeological sites in the area.
- 2 point AFR Lake - Research and temporary camp location. No known archaeological sites in the area.
- 3 point New project geometry