NIRB Application for Screening #126257
Kimmirut Sealift Field Program

Application Type:	New
Project Type:	Scientific Research
Application Date:	Tuesday, January 20, 2026
Period of operation:	from 2026-02-27 to 2031-12-21
Project Proponent:	Grant Woodbury 1126 Mivvik Iqaluit Nunavut X0A 2H0 Canada Phone Number:: 867-975-6773, Fax Number::

DETAILS

Non-technical project proposal description

English: Worley Canada Services Ltd., operating as Worley Consulting, has been retained by the Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN) to support the detailed design of sealift facilities in Kimmirut, Nunavut. To inform the detailed design phase, several field programs will be undertaken over the next few years, initiating in the 2025 open-water season. This Project Description (PD) is specific to the field programs. The intention of the field programs will be as below: •Conduct environmental, geoscience, geophysics, and archaeological baseline studies in each location.•Perform a geotechnical study to confirm intertidal and quarry rock conditions.•Topographic and bathymetric surveys.•Existing conditions or effects studies prior to construction of the Sealift Site.Surveys will be conducted in the Sealift Study Area and Quarry Study Area. A map depicting the Study Area is provided in Figure 3-1 of the NPC Application Letter. Field programs will be undertaken in open-water season. The initial 2025 existing conditions field program will be undertaken in October. Consultations regarding the proposed field activities will be conducted with the Hamlet and Hunters and Trappers Association in advance of the field season. A letter of support for the Project is provided in Appendix A of the NPC Application Letter.

French: Worley Canada Services Ltd., exerçant ses activités sous le nom de Worley Consulting, a été retenue par le ministère des Transports et Infrastructure Nunavut (TIN) afin d'appuyer la conception détaillée des installations de ravitaillement maritime à Kimmirut, Nunavut.Pour soutenir l'étape de conception détaillée, plusieurs programmes de terrain seront réalisés au cours des prochaines années, à commencer par la saison des eaux libres de 2025. La présente Description de Projet (DP) concerne spécifiquement ces programmes de terrain. L'objectif des programmes de terrain est le suivant :•Réaliser des études de base environnementales, géoscientifiques, géophysiques et archéologiques dans chaque secteur.•Effectuer une étude géotechnique afin de confirmer les conditions intertidales et celles de la roche de carrière.•Réaliser des levés topographiques et bathymétriques.•Effectuer des études sur les conditions existantes ou les effets potentiels avant la construction du site de ravitaillement maritime.Les relevés seront réalisés dans la zone d'étude du projet de ravitaillement. Des cartes illustrant la zone d'étude sont présentées à la figure 3-1 de la lettre de demande adressée à la CAN . Les programmes de terrain se dérouleront pendant la saison des eaux libres. Le premier programme de terrain visant à documenter les conditions existantes est prévu pour octobre 2025. Des consultations concernant les activités de terrain proposées seront menées avec le Hameau et l'organisation de chasseurs et de trappeurs (OCT) avant la saison de terrain. Une lettre d'appui au projet est fournie à l'annexe A de la lettre de demande à la CAN.

Inuktitut: ᐅᐃᕐᓕ ᑲᓇᑕ ᐱᔩᔅᓯᕈᑎᓕᕆᔩᒃᑯᑦ ᑭᒻᓕᓕᓯᒪᔪᑦ (Worley Canada Services Ltd.), ᐱᓕᕆᓪᓗᑎᒃ ᐅᐃᕐᓕ ᖃᐅᔨᒪᔨᑕᐅᓪᓗᑎᒃ (Worley Consulting), ᐱᔭᐅᓯᒪᓕᒻᒪᑕ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᓐᓄᑦ – ᐃᖏᕐᕋᔪᓕᕆᔩᒃᑯᓐᓂᑦ ᐊᐅᓚᔪᓐᓇᐅᑎᓕᕆᔩᒃᑯᓪᓗ ᓄᓇᕗᒻᒥ (GN–TIN) ᐃᑲᔪᑦᑕᐅᕐᑯᓪᓗᒍ ᓇᓗᓇᐃᔭᔅᓯᒪᑦᑎᐊᑦᑐᖅ ᓴᓇᓯᒪᓂᔅᓴᖓ ᐅᒥᐊᔾᔪᐋᒃᑯᑦᑎᑕᐅᔪᓂᒃ ᐱᓕᕆᔾᔪᑏᑦ ᑭᒻᒥᕈᑦ, ᓄᓇᕗᒻᒥ. ᑐᓴᑦᑎᑕᐅᓯᒪᕐᑯᓪᓗᒍ ᓇᓗᓇᐃᔭᔅᓯᒪᑦᑎᐊᓪᓗᓂ ᓴᓇᓯᒪᓂᔅᓴᖓᑕ ᐱᓕᕆᐋᕆᔭᐅᓂᖓ, ᖃᔅᓯᑲᓪᓚᒪᓇᑦ ᑕᖅᑳᓂ ᐱᓕᕆᔾᔪᑏᑦ ᐱᓕᕆᐊᕆᔭᐅᓂᐋᒻᒪᑕ ᐊᑐᓂᖏᓐᓂ ᖃᔅᓯᑲᓚᐃᑦ ᐊᕐᕌᒍᐃᑦ, ᐱᒋᐊᑕᐅᓗᑎᒃ 2025–ᒥ ᓯᑯᐃᔭᔅᓯᒪᓕᑦᑎᓪᓗᒍ ᓇᓕᕉᑎᓂᒻᒥ. ᑖᓐᓇ ᐱᓕᕆᐊᒃᓴᒻᒥᒃ ᓇᓗᓇᐃᔭᔅᓯᓯᒪᔪᖅ (PD) ᑐᕌᖓᓗᐊᙳᐋᒻᒪᑦ ᑕᖅᑳᓂ ᐱᓕᕆᔾᔪᑎᓄᑦ. ᐱᓕᕆᐊᕆᔭᐅᒐᓯᐊᓂᖓ ᑕᖅᑳᓂ ᐱᓕᕆᔾᔪᑏᑦ ᐃᒪᓐᓇᐃᓕᖓᓂᐋᒻᒪᑕ: •ᐱᓕᕆᓗᑎᒃ ᐊᕙᑎᓕᕆᓂᒻᒥᒃ, ᓄᓇᒥᒃ ᖃᐅᔨᒪᒪᒐᓯᐋᑦᑎᑦ, ᓄᓇᓕᕆᓃᑦ, ᐊᒻᒪᓗ ᐃᓅᓯᐅᕙᑦᑐᓕᕆᓂᒻᒧᑦ ᑐᙵᕕᓪᓗᐊᑕᒥᒃ ᖃᐅᔨᓇᓯᐋᓗᑎᒃ ᐊᑐᓂ ᐃᓂᒋᔭᐅᔪᓂ.•ᐱᓕᕆᓗᑎᒃ ᓄᓇᓕᕆᐊᖑᑦᑎᐋᔅᓯᒪᒋᐋᓕᒻᒥᒃ ᖃᐅᔨᒪᒐᓯᐋᓪᓗᑎᒃ ᓇᓗᓇᐃᑦᑕᐅᕐᑯᓪᓗᒋᑦ ᑎᓂᓐᓂᒻᒥᒃ ᐊᒻᒪᓗ ᐱᒍᒥᓇᓂᔅᓯᐅᕆᓂᒻᒥᒃ ᐅᔭᕋᐃᑦ ᖃᓄᐃᓂᖏᓐᓂᒃ.•ᓇᓗᓇᐃᔭᔅᓯᑦᑎᐋᕈᑎᓂᒃ ᐊᒻᒪᓗ ᐃᑎᓂᔅᓯᐅᕆᓂᕐᒥᒃ ᖃᐅᔨᒪᓯᐋᓂᐅᔪᓂᒃ.•ᑕᒪᔾᔭᐅᔪᑦ ᖃᓄᐃᓕᖓᓂᖏᓂᒃ ᐅᕝᕙᓘᓐᓃᑦ ᐊᑦᑐᐃᓂᖏᓐᓂᒃ ᖃᐅᔨᓇᓯᐋᓂᑦ ᓴᓇᔭᐅᓚᐅᑦᑎᓪᓗᒍ ᐅᒥᐋᔾᔪᐋᒃᑰᑦᑐᓂᒃ ᐅᓯᖏᐋᕕᐅᑉ.ᖃᐅᔨᓴᔅᓯᓃᑦ ᐱᓕᕆᐊᕆᔭᐅᓂᐋᑐᑦ ᑕᐅᕙᓂ ᐅᒥᐋᔾᔪᐋᒃᑯᑦᑐᓂᒃ ᖃᐅᔨᓇᓯᐊᕕᒋᔭᐅᔪᒥ. ᓄᓇᙳᐋᑦ ᑭᓱᙳᐋᓕᐊᕆᔭᐅᓂᖏᓂᒃ ᖃᐅᔨᓴᓯᐋᕕᐅᔪᖅ ᑕᑯᔭᐅᒍᓐᓇᑉᐳᖅ ᑕᑯᓴᐅᑎᑦᑎᒍᑎ 3–1 ᐅᑯᓇᓂ ᓄᓇᕗᑦ ᐸᕐᓇᓐᓂᒻᒥ ᐱᓕᕆᕐᑯᓯᒍᑎᓕᕆᔩᒃᑯᑦ ᑐᔅᓯᕋᐅᑎᓂᒃ ᑎᑎᖅᑲᓂ. ᑕᖅᑳᓂ ᐱᓕᕆᔾᔪᑏᑦ ᐱᓕᕆᐊᕆᔭᐅᓂᐋᒻᒪᑕ ᓯᑯᖃᕈᓐᓃᑦᑎᓪᓗᒍ ᓇᓪᓕᕉᑎᓂᒻᒥ. ᐱᒋᐋᕈᑎᖓ 2025 ᑕᒪᔾᔭᐅᔪᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑕᖅᑳᓂ ᐱᓕᕆᔾᔪᑎ ᐱᓕᕆᐊᕆᔭᐅᓂᐋᒻᒪᑕ ᐅᑐᐱᕆᒥ. ᐊᐱᔅᓯᓐᓂᖅ ᑐᕌᖓᓗᓂ ᑐᔅᓯᕌᕆᔭᐅᔪᒧᑦ ᑕᖅᑳᓂ ᐱᓕᕆᓂᐅᒐᔭᑦᑐᓄᑦ ᐱᓕᕆᖃᑎᖃᕈᑎᒋᔭᐅᓂᐋᒻᒪᑕ HLᓚᒃᑯᓐᓂᒃ ᐊᒻᒪᓗ ᐊᖑᓇᓯᐋᑦᑎᑦ ᒥᑭᓯᐋᖅᑲᑦᑎᓪᓗ ᑲᑐᔾᔨᖃᑎᒌᖏᓐᓂᒃ ᓯᕗᓂᖓᒍᑦ ᑕᖅᑳᓂ ᐱᓕᕆᕕᔅᓴᐅᓕᕋᔭᑦᑎᓪᓗᒍ. ᑎᑎᖅᑲᑦ ᐃᑲᔪᔅᓯᐃᔪᑦ ᐱᓕᕆᐊᒃᓴᒥᑦ ᐱᔭᒃᓴᐅᑎᑕᐅᕗᑦ ᐃᒻᒥᒃᑰᖓᓂᖅ A–ᒥ ᐅᑯᓇᓂ ᓄᓇᕗᑦ ᐸᕐᓇᖕᓂᕐᒥᑦ ᐱᓕᕆᕐᑯᓯᒍᑎᓕᕆᔩᒃᑯᑦ ᑐᔅᓯᕋᐅᑎᑦ ᑎᑎᖅᑲᖏᓐᓂ.

Personnel

Personnel on site: 10

Days on site: 30

Total Person days: 300
Operations Phase: from 2026-02-27 to 2031-12-21

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Sealift Study Area	Scientific/International Polar Year Research	Commissioners	N/A	N/A	The field program will be conducted at the existing sealift ramp and layout area within the community of Kimmirut.
Quarry Study Area 3	Scientific/International Polar Year Research	Commissioners	N/A	N/A	The field program will be conducted at a proposed quarry site approximately 1.8 km north west of the community of Kimmirut within the municipal boundary.
Quarry Study Area 4	Scientific/International Polar Year Research	Commissioners	N/A	N/A	The field program will be conducted at a proposed quarry site approximately 1 km north west of the community of Kimmirut within the municipal boundary.
Quarry Study Area 1	Scientific/International Polar Year Research	Municipal	N/A	N/A	The field program will be conducted at a proposed quarry site approximately 1.7 km north west of the community of Kimmirut within the municipal boundary.
Quarry Study Area 2	Scientific/International Polar Year Research	Municipal	N/A	N/A	The field program will be conducted at a proposed quarry site approximately 1 km south west

					of the community of Kimmirut within the municipal boundary.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Kimmirut	Members, Design Workshop	Mayukalik Hamlet and Hunters and Trappers	2021-09-29
Kimmirut	Council	Hamlet of Kimmirut	2021-09-29
Kimmirut	Residents	Residents – Community Information Booths	2021-09-30
Kimmirut	Council and Lands Committee	Hamlet of Kimmirut	2025-11-18
Kimmirut	Residents	Residents – Co-op Information Table	2025-11-17
Kimmirut	Members, Design Workshop	Mayukalik Hamlet and Hunters and Trappers	2025-11-17
Kimmirut	Dustin, Foreman	Hamlet of Kimmirut	2025-11-18
Kimmirut	Leetia Naulaq, Community Liaison Officer	Qikiqtani Inuit Association	2025-11-20
Kimmirut	John Mabberi-Mudonyi, SAO	Hamlet of Kimmirut	2025-11-20

Authorizations

Indicate the areas in which the project is located:

South Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Government of Nunavut, Nunavut Research Institute	Scientific Research License, application will be submitted once NIRB SDR issued	Not Yet Applied		
Nunavut Water Board	A Water Licence or a NWB Authorization will be obtained if required.	Not Yet Applied		
Government of Nunavut, Community Services	Land Use Permit will be obtained if drilling is required at the Sealift footprint.	Not Yet Applied		
Government of Nunavut, Department of Environment	Wildlife Research Licence and/or Wildlife Observation Licence to be confirmed if required.	Not Yet Applied		
Fisheries and Oceans Canada	Licence to Fish for Scientific Purposes (LFSP) to be confirmed if required.	Not Yet Applied		
Crown-Indigenous Relations and Northern Affairs Canada	Land Use Permit, to be confirmed if required.	Not Yet Applied		
Nunavut Planning Commission	Conformity Determination	Active	2025-12-02	

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Field crew will travel to the program area by plane from Vancouver.	
Land	Field crews will travel by foot or local vehicles within the community.	

Project accomodation types

Community

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Multibeam Echo Sonar	1	1 m x 50 cm	Seabed type and conditions.
Subbottom Profiler	1	1 m x 1 m	Ground conditions below seabed.
Side Scan Sonar	1	2 m x 50 cm	Seabed type and conditions.
Excavator	1	30 to 40 ton	The excavator will be used to dig test pits.
Mounted drill rig	1	2.5 m x 5.5 m x 3 m	A geotechnical subsurface drilling program is required to understand the type and variability of subsurface soil and/or rock conditions.
Geotechnical hammer	1	~2 kg (30 to 40 cm)	A geotechnical survey is required to identify suitable quarry locations for sourcing the required fill and rock armour for the Sealift construction.
Sediment / grab sampler	1	3 m x 50 cm	Collection of sediment samples.
Drone	1	To be confirmed	Topographic and feature survey to conduct LiDAR and aerial surveys.
Remotely Operated Vehicle (ROV)	1	72 cm x 24 cm x 44 cm	Underwater video survey to determine habitat characteristics of the subtidal seabed.
Ponar	1	3 m x 50 cm	Subtidal samples will be collected using a ponar grab sampler (grab sampler) or by SCUBA divers.
Conductivity, temperature, depth meter	1	3.5 cm x 9.0 cm	Device used to assist in water quality parameters during water quality survey.
Biological Survey Equipment	As needed	To be determined	A variety of small manual hand tools including iPads, transect tape, quadrat, clinometer, binoculars, and GPS, will be required for the Marine and Terrestrial Programs.
Niskin Sampler	As required	1.5L	Collection device to get water from depth during water quality survey.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Sample Preservative	hazardous	1	1	1	Liters	Preservatives such as formalin, ethanol, and hydrochloric acid are required to preserve water and sediment quality samples for the marine-based Field Program components. Less than 1 millilitre of preservative will be required per sample bottle.
Gasoline	fuel	1	200	200	Liters	Mobile equipment, generators, heaters
Diesel	fuel	1	10000	10000	Liters	Drill rig and excavator for geotechnical study
Poly Plus	hazardous	100	9	900	Kg	Drill rig
Hydraulic Oil	hazardous	18	20	360	Liters	Drill rig
10/40 Oil	hazardous	32	4	128	Liters	Drill rig
Gun Grease	hazardous	96	1	96	Liters	Drill rig
Methyl Hydrate	hazardous	40	1	40	Liters	Drill rig
Transmission Fluid	hazardous	10	4	40	Liters	Drill rig
Antifreeze	hazardous	40	4	160	Liters	Drill rig
80/90 gear oil	hazardous	30	4	120	Liters	Drill rig

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
3	Municipal sources	Drilling at the Quarry Study Area will require freshwater, to be obtained from the Hamlets' water truck. If municipal supply is insufficient, a NWB Water License will be obtained for water withdrawal.

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Scientific/International Polar Year Research	Non-Combustible wastes	Limited (no bulk waste)	"pack in, pack out" policy	None required
Scientific/International Polar Year Research	Sewage (human waste)	Limited / regular amount	Use existing facilities	None required

Environmental Impacts:

Environmental impacts associated with the field programs are expected to be minimal. Potential impacts to terrestrial and marine habitat and wildlife may occur, however, all personnel will be accompanied by a local field assistant to confirm minimal disturbances. Minor disruptions to traditional land use may occur in the proposed study area, however, arrival of the research team will be advertised on local social media prior to arrival. There will be an increase in anthropogenic presence in the Study Area but the research team is relatively small and are conducting non-invasive short term studies. Please see Table 8-1 of the attached application letter.

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

The Project is occurring within municipal boundaries in a developed area. Baseline studies of the physical environment will be conducted as a component of this field program. This will include surveys of the geotechnical, geophysical, and topographical characteristics of the marine (intertidal and subtidal) and terrestrial environment within the Study Areas. Please see the attached application letter and Environmental Management Plan for further information.

Description of Existing Environment: Biological Environment

The Project is occurring within municipal boundaries in a developed area. Baseline studies of the biological environment will be conducted as a component of this field program, including surveys of the marine (intertidal and subtidal) and terrestrial habitats within the Study Areas. Please see the attached application letter and Environmental Management Plan for further information.

Description of Existing Environment: Socio-economic Environment

Kimmirut has a population of 426 residents and saw an increase in population approximately 9.5% since 2016 according to the 2021 Census data from Statistics Canada. Kimmirut typically sees two to three calls of dry cargo ships per year averaging three days each with sealift in early to mid-July and retrograde in September through late October. Sealift operations are undertaken in the middle of the community along the main boat ramp.In-person consultations with the community were conducted in 2021 as part of the GN–TIN marine infrastructure scoping study and most recently in November 2025. Ongoing consultation will be undertaken prior to arrival of the field team to confirm local support and gather traditional knowledge to support the baseline assessment. Please see Section 4 of the attached application letter.

Miscellaneous Project Information

Not applicable.

Identification of Impacts and Proposed Mitigation Measures

Potential impacts to terrestrial and marine habitat and wildlife may occur, however, all personnel will be accompanied by a local field assistant to confirm minimal disturbances. Minor disruptions to traditional land use may occur in the proposed study area, however, arrival of the research team will be advertised on local social media prior to arrival. There may be temporary underwater and air noise disturbance due to geotechnical and geophysical studies, but the footprint of these activities will be minimal. Please see the attached application letter and Environmental Management Plan for further information.

Cumulative Effects

Several projects are taking place nearby during the same timeframe as this Project. These primarily involve scientific research and tourism activities. Cumulative effects are expected to be minimal, as most project components include mitigation measures designed to reduce potential impacts. Please see the attached application letter and Environmental Management Plan for further information.

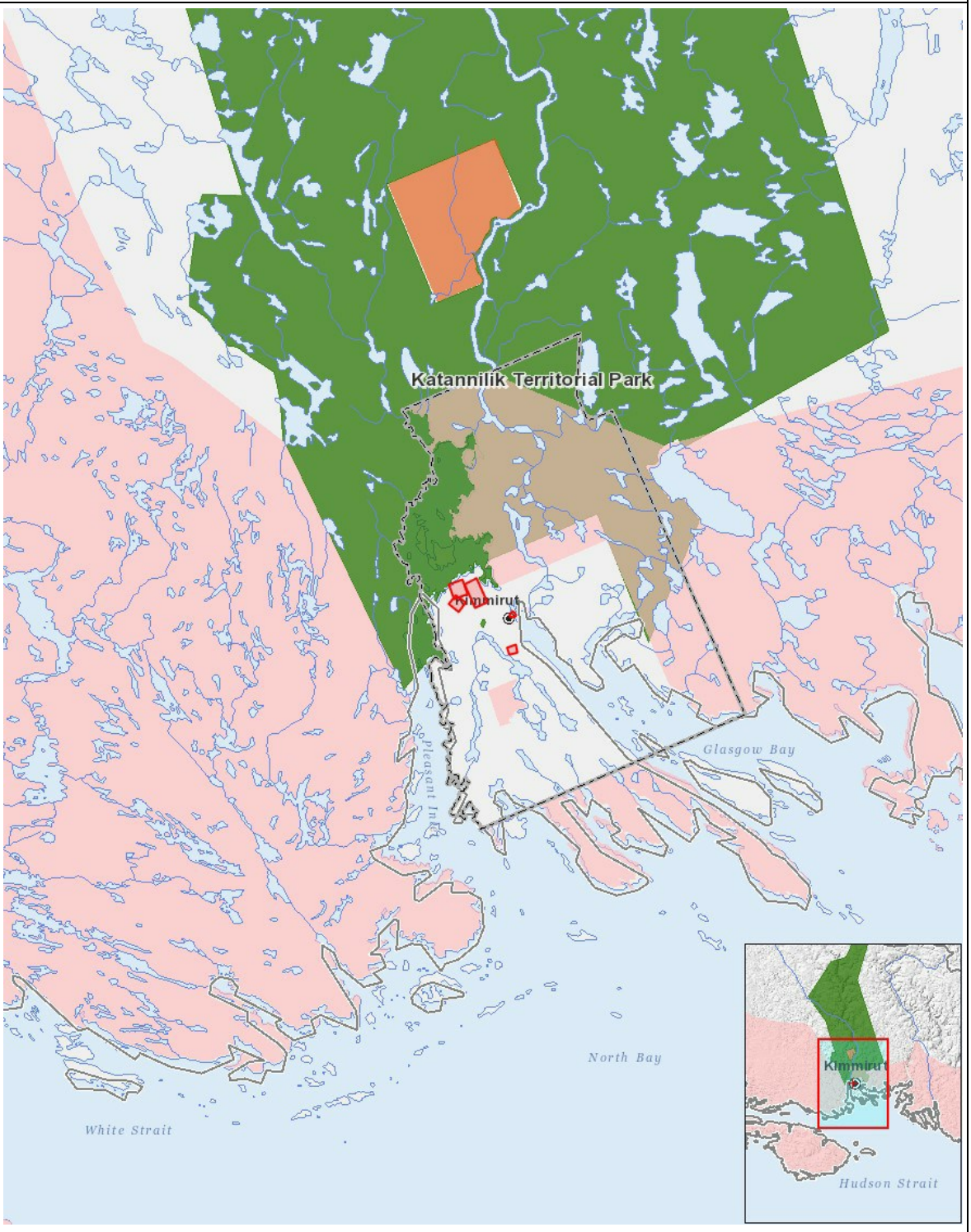
Impacts

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																									
Scientific/International Polar Year Research		M	-	-	-	-	-	M	-	-	-	-	M		-	M	-	-	-		-	P	P	-	-
Decommissioning																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Project Location



List of Project Geometries

1	polygon	Quarry Study Area 4
2	polygon	Quarry Study Area 3
3	polygon	Quarry Study Area 1
4	polygon	Quarry Study Area 2
5	polygon	Sealift Study Area