



NIRB Application for Screening #126010

Taloyoak Sealift Improvement

Application Type: New

Project Type: Municipal and Industrial Development

Application Date: 11/21/2024 12:37:38 PM

Period of operation: from 2026-10-31 to 2056-10-31

Project Proponent: Adrian
EXP Services Inc
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Moncton New Brunswick E1G 2K5
Canada
Phone Number:: 5062271841, Fax Number::

Inuinnaqtun: Tamna umiakkut ihuaqhaidjutikharnik havaaqhangit aulaliqtun ihuayumirutikharnik auladjutikharnik hanaqidjutikharnik nunalaani. Una havaaqhaq ihumagiyauyukhaq nunalaani nunataaqhimayunik havaaqharnik nunalaani ilaayunik talvani iqaluliqinikkut auladjutikharnik. Tamna havaaqhaq nayugaqaqtuq kingulirmi Stanners Harbourmi, anmuktivakhimayuk mayuqarviangani talvanga Northern Storemin. Una nayuganga talvani tadjja umiakkut agyaqtarniqmut aulapkaininngit piyuq. Tamna umiakuuqtitiniaqtun ihuaqhaidjutikharnik havaaqhangit tuniniaqtun 5,290nik m2nik nayugakhaanik tutquqtirvikharnik piyaangatlu imarmik. Tamna umiakuuqtitiniaqtun ihuaqhaidjutikharnik havaaqhangit talvani aulaniaqtun talvani aulalirmiyut umiangit uhiviit, kihimi angikliyumirutikharnik nunagiyainik piyaangat tutquqtigiyangat hunavalungnik nunalaanilu

qainanik auladjutikharnik. Atuqtauyut tuniyauyut nayugait ikitqiat 250 m2, uhiiyarviit hivituyuumiyut haniani apqutip (piksat umiakuuqtitinikkut hulidjutit ilaliutihimayut uuktuutinun). Iniqhimayunik uyaraliamik qaagani atuqtauyuq tamayaqaqvik nuuniaqtuq uviganut uviganut immaqmun pipkariagani himigakhamik munarijutinik. Tamna qayaq uhiiyarvik naunaiqtitauniaqtuq nungutiqtitaugiami tamayaniklu ingutaarninnganik. Avataagut umiat nayugaat iliurarniaqtait qulliit alruyaqtuqtullu niuvvaaviit ihuaqhiyuumiriangani nayugait auladjutait uvalu piyakhat. Una ikayuutauniaqtuq ukiumi-hivitanun atungnirit nayugait. Qaffiuyunik uyaqqanik iliugaqtauniaqtun hinaanun hanigaini umiaqarvingmi nayugaani ikikliyumiqtitiyaangat kiklingani nayugaani.

Personnel

Personnel on site: 6

Days on site: 240

Total Person days: 1440

Operations Phase: from 2025-06-01 to 2026-10-31

Operations Phase: from 2026-10-31 to 2056-10-31

Post-Closure Phase: from to

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Proposed camp area	Camp	Municipal	General location of current Pilitak Camp. Desired location for additional camps also.	n/a	Near new highschool
Construction Traffic Route	Access Road	Municipal	Current community road network. Construction traffic route to work site.	n/a	Current road network.
Proposed work area.	Offshore Infrastructure (port, break water, dock)	Marine	5000m2 sealift receiving area to be constructed. Infill of harbour required.	unknown	At current sealift receiving location.
Proposed work area.	Baseline data	Marine	Bathymetric Survey Completed in october 2024. Data is within attached design documents	n/a	at current sealift area.
Proposed work area.	Baseline data	Marine	Flora and Fauna study completed for the work site. Report is attached.	n/a	at current sealift area.
Proposed work area.	Baseline data	Marine	Aerial photos of the project site (September 2024) are attached for information.	n/a	at sealift area
far far away sandpit	Quarry/Borrow pit	Municipal	existing quarry site	unknown	current material quarry
Rock Quarry	Quarry/Borrow pit	Municipal	existing rock quarry site	unknown	current quarry site
material quarry site	Quarry/Borrow pit	Municipal	Site 6 material quarry. existing.	unknown	current site 6 quarry.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Taloyoak	AZAD ISMIAL	CGS Kitikmeot Region Project Manager	2024-09-01

Taloyoak	David Irqut	ASAO, Hamlet of Taloyoak	2024-11-26
Taloyoak	Community Engagement MEeting	EXP and CGS representatives were in the community to present the project at the Community MEeting. The meeting was not well attended, but input was gathered to help optimize the project needs	2024-11-26

Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Other	Nunavut Planning Commission. Forwarded to NIRB for continued review.	Active	2024-11-24	
Government of Nunavut, Community Government & Services	EXP was retained by CGS to provide design engineering services.	Active	2024-10-01	2025-03-31
Fisheries and Oceans Canada	Application to DFO will be issued in the next week or so.	Not Yet Applied		
Government of Nunavut, Qulliq Energy Corporation	EXP will be reaching out to Qulliq to confirm power availability for the project lighting	Not Yet Applied		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	An external contractor will be required to perform the project work in the community. Project work will be overseen by EXP and GN staff.	
Water	Lighting materials will require sealift delivery for the project.	

Project accomodation types

Temporary Camp

Community

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Bulldozer	1	2x3m	To spread out material.
Compactor	1	2x3m	To compact fill
Loader	1	2x3m	To load up fill at Quarry
rock truck	2-3	3x4m	To deliver material to site

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	10	6000	60000	Liters	.

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
4	Delivery to camp by hamlet for up to 8 people	hamlet water plant

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Waste disposal	Non-Combustible wastes	unknown, but minimal.	Camp waste will be delivered to the municipal dump site. Waste would be a result of maintaining their camp, feeding the staff, etc.	n/a
Offshore Infrastructure (port, break water, dock)	Overburden (organic soil, waste material, tailings)	0	It is not expected that any waste will be generated from the project site during the construction.	n/a
Quarry/Borrow pit	Overburden (organic soil, waste material, tailings)	minimal	Given the nature of the quarry locations already being established, minimal amount of overburden materials are expected to be impacted. Although a large volume of material is required, multiple sources are currently established where the contractor can generate their materials.	n/a

Environmental Impacts:

This project will require the infilling of portions of the harbour to accommodate the 5,000 m2 laydown area. EXP has reached out to DFO to have preliminary discussions on how to mitigate environmental concerns as this project design progresses. EXP has attached the Flora and Fauna report authored to assist the design.

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

The background work for the project include collecting site photos (attached), bathymetric data (attached within the design iteration), and granular material history (from the last 2 years construction of the sewage lagoon).The facility will have approximately 5290 m2 of area to accommodate sealift cargo delivery. The latest design iteration is attached. During operation of the facility, the sealift delivery will be received at the boat ramp in the same approach as currently realized. The delivery of the barge to the shore will be improved over the current situation as the ramp will allow for better movements, more storage, and limited delivery movements on the community road network. The current set up requires significant movements within the community during the delivery process. The existing facility for the sealift receiving is approximately 250m2 in area, with it extending down from an existing roadway to the shore (See attached photos). The new sealift will provide an improved boat ramp and storage for the goods received. This new area will result in the roadway not being closed down to facilitate the movement of goods at the sealift delivery time.The contractor is expected to have a camp installed within the community for the duration of the project. The camp will be required to be demobilized following project substantial completion, unless the contractor has ongoing continued work in the Hamlet of Taloyoak.

SECTION D2: Facility Construction

The construction will see approximately 33,000 cubic metres of granular material imported to construct the sealift project. The material will be processed in the existing quarries, and transported to the site. Material placed below the water line will be coarse (larger than 10mm), with a well graded crushed rock utilized for the driving surface. Approximate quantities of granular material are: 1. Borrow (below water) = 23,000 m³. 2. Borrow (above water) = 5,000 m³. 3. Crushed Rock Driving surface = 3,000 m³. 4. Rip Rap shore protection = 2,000 m³. Work is anticipated to require a full construction season of material production, followed by a construction season of material placement. The consultant would have personnel onsite to visualize the progress of the contractor. Given the large amount of fill being infilled into the water, the material placed below the water will be free of fines (will be larger than 10mm). This will minimize the sediment into the water, and improve the ability to minimize ongoing settlement of the fill. DFO will be consulted on this procedure moving forward, with the potential requirement of a turbidity curtain type of installation (although this would be challenging to maintain within the harbour). Aggregate studies have been attached to this application.

SECTION D3: Facility Operation

Following the substantial completion of the project, the Hamlet of Taloyoak will be responsible for maintenance operations. The facility should require minimal maintenance during its lifespan. With the shoreline protection in-place, it is not expected that wave erosion to be a critical item. This will further be minimized in the future with the proposed breakwater construction (outside of current scope). Yearly inspections should be completed in the summer to review the condition of the shoreline erosion protection; some minor repair work at the time of first observation can prevent more significant repairs during the life cycle of the project. Maintenance to the driving surface of the sealift will be by conventional means. Additional crushed rock would be required on an as-needed basis to resolve potholes, isolated settlements, and sealift equipment disturbances.

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

It is not expected that any sea vessels would be required for construction, aside from potential small-craft boats to collect future bathymetric data. Those vessels would be rented from local people, as was undertaken for the October 2024 bathymetric study.

SECTION H2: Disposal At Sea

To clarify, no waste will be disposed of at sea. The project will require manufactured aggregate materials to be delivered and installed within the project limits. The infilling of the harbour is required to improve the capacity for sealift receiving of goods. The infilling will be completed using granular aggregates produced within the community. General gradations will be between 10 and 100mm, in order to reduce the impact to water quality. Infilling will be required at the end of the harbour, as per the initial design documents. The clean granular material used for the project will aim to reduce the impact marine life, and improve the conditions for the community for sealift delivery and boat launching. The infilling area is where the sealift already arrives, with the new configuration providing more suitable facilities to unload and store the delivered goods. It is expected that the delivery of aggregates will be over a full construction season (approx 4 months). The aggregate, once placed, will be similar to the existing materials on the seabed given that they will be produced from materials of similar geology. The larger rock material placed at the surface could be favourable for fish habitat. During construction, rock will be transported from quarry locations (see project map) along the existing community roads (see project map). It is understood that the community is involved in discussing future road networks that may allow construction traffic to divert away from the main road network; however, it is likely that this would only be realized following the current project timelines.

SECTION I1: Municipal Development

New construction will provide an area to for loading/unloading sealift delivery supplies. The project will require aggregates to be processed from current quarry sites and imported to the sealift site for construction. The contractor will require construction equipment to facilitate the product, transport, and install of aggregate materials to create the sealift site. The project will see aggregates imported and installed to raise the elevation of the area to approximately 2 metres above sea level. The contractor will be required to provide their procedures to complete the work. These submittals (not limiting to) will require detailed safe work and safe job procedures, environmental guidelines for equipment use, maintenance requirements, and their tool box safety meetings that will be regularly occurring during construction. As this project will involve multiple pieces of construction equipment, noise and emissions typical of construction sites will be realized. At this time, it is anticipated that the contractor would be requiring at least 1 excavator, 1 loader, 1 bulldozer, 1 compactor, and 3 trucks. In total, the final product will be a crushed rock surfaced receiving area for the sealift. The ramp within the project will be also used as a community boat ramp for recreational use and fisheries. The constructed area will be fit up with six lights that can be controlled by the community.

Description of Existing Environment: Physical Environment

Project will largely encompass marine environment at the end of the harbour, where the existing sealift operations currently take place. The quarry / material borrow sites are existing and currently in operation, as was used in the 2023-2024 lagoon project. The existing shoreline is rocky, with the eastern portion of the harbour being exposed bedrock. As surveyed (topographic and bathymetric surveys), the site is suitable for construction without much risk for soft and unsuitable soils. (Survey information is attached) The aggregates for the project will be processed in existing quarry locations in the community. These sources were used within the recent lagoon project. The project area is already used for the sealift delivery. The new project will improve this operation, while also providing a community boat ramp to facilitate recreational and fishing vessels.

Description of Existing Environment: Biological Environment

The proposed sealift site is a rocky shoreline and harbour (see photos). The project will require the infilling of portions of the water to accommodate the project dimensions (water depth at the end of the sealift improvement site is approximately 6metres). A flora and fauna report (desktop study) is attached. A preliminary discussion with DFO has occurred, with future discussions required once the design is finalized.

Description of Existing Environment: Socio-economic Environment

This project will support the community in improving the sealift delivery process, while also giving access to a boat ramp. The boat ramp is needed as more than 10 community members now launch their boats daily, so an improved ramp is required. While in the community for engagement meetings in December 2024, a member of community planning was in the community. There is development planned for the eastern portion of the community, and the sealift project has been adjusted from the original concept to potentially connect to the new community area. This coordination could possibly improve the community use of the

area.

Miscellaneous Project Information

Site photos from September 2024 are attached. They document the condition of the shoreline at the time of the September sealift arrival. The front end specifications for the project will include environmental response and requirements. As is typical for projects near water, the contractor will have limitations to their storage of equipment for overnight/non-work days, requirements for fueling, spill mitigation/prevention, and working near the water. Water quality testing can be regimented during construction should it be a requirement of environment Canada or DFO. There is no expectation of waste generation at the project site. A waste management plan can be developed by the contractor to identify the collection and disposal of any waste generated from their camp and project management site trailer locations.

Identification of Impacts and Proposed Mitigation Measures

This project will require the infilling of a portion of the harbour to accommodate the sealift receiving area. As such, there will be impacts to the fish habitat. The following mitigation measures are accounted for in the design: 1. The aggregate placed below the water level will be free of fine materials. This will improve the placement ability, but also deposit less sediment into the water. This mitigation is incorporated to provide better water quality for aquatic life in the project area. 2. The project site will offset potential fish habitat. With the new design incorporating coarse granular material (gravels, cobbles, boulders), this is commonly viewed as desirable fish habitat. 3. All aggregates produced for the project will be acquired from already existing quarry sites. The work does not envision new undeveloped quarry sites being required. 4. The quarry sites are on the opposite side of the community from the construction site. This will mean that work will see an increase of construction traffic through the community for the works. A detailed plan will be required by the contractor to ensure that travel through the community will not impact community members. The underwater area that will be filled in is 7,150 m². The new surface that will be established along the sealift area will be 2,670 m².

Cumulative Effects

This project will provide an overall benefit to the community. With the improved sealift receiving capacity being a major reason for the project, this project will further see benefits to the community with the boat launch and parking area of truck and trailers.

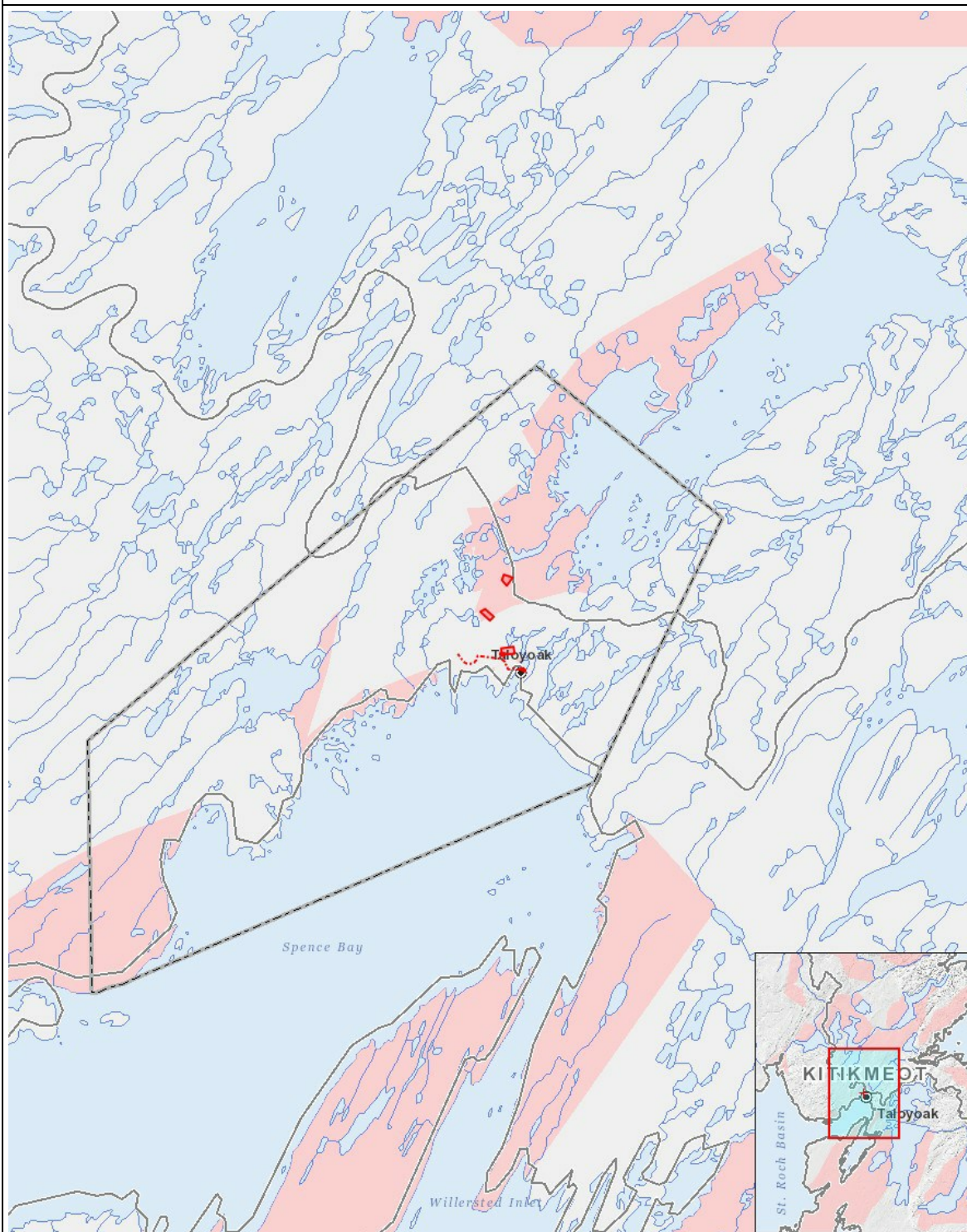
Impacts

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																										
Camp		U	P	M	-	M	M	U	P	M	M	U	M			M	M	M	U	M		U	P	U	P	U
Access Road		N	N	N	-	N	N	N	N	N	N	M	P			N	N	N	N	N		N	P	M	M	U
Offshore Infrastructure (port, break water, dock)		U	M	M	-	M	N	N	N	M	P	M	P			M	U	M	U	U		U	P	P	P	U
Operation																										
Camp		U	P	M	-	P	U	U	P	P	P	U	M			U	U	U	P	U		U	P	P	P	U
Access Road		N	N	N	-	N	N	N	N	N	N	N	N			N	N	N	N	N		N	N	N	N	N
Offshore Infrastructure (port, break water, dock)		U	P	N	-	P	N	M	N	P	M	M	M			M	P	M	P	U		U	P	P	P	U
Decommissioning																										
-		-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-		-	-	-	-	-

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

Project Location



List of Project Geometries

1	polygon	Proposed work area.
2	polygon	Proposed camp area
3	polygon	Rock Quarry
4	polygon	far far away sandpit
5	polygon	material quarry site
6	polyline	Construction Traffic Route