

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Hamlet of Baker Lake New Sealift	Municipal and Industrial Development	Municipal	N/A	N/A	New sealift laydown area is 500 m east of the easternmost extent of the current developed zones.
Hamlet of Baker Lake New Sealift	Access Road	Municipal	N/A	N/A	A new access road will be constructed to link the existing road with the new sealift laydown area (500 m east of the easternmost extent of the current developed zones).

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Baker Lake	Sheldon Dorey	Hamlet of Baker Lake	2020-02-02
Baker Lake	Baker Lake HTO	Baker Lake HTO	2020-02-01

Authorizations

Indicate the areas in which the project is located:

Transboundary
Kivalliq

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Transport Canada	Minor work or approval	Not Yet Applied		
Hamlets and Municipalities	Design and Development Permit/Approval	Not Yet Applied		
Other	Nunavut Planning Commission - Conformity Determination	Active	2025-04-22	
Other	Government of Nunavut - Culture and Heritage - Class 2 Nunavut Territory Archeologist Permit	Applied, Decision Pending		
Fisheries and Oceans Canada	Section 52 (2) FAA. Request for Review.	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	Local labour will be employed for the construction of the Project.	

Project accommodation types

Community
Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Front-End Loader	1	20.25 ft. High by 7.91 ft. Wide	Loading aggregates.
Rock Truck	3	21 ft. Long by 8.5 ft. Wide	Hauling aggregates.
Roller Compactor	1	NA	Road construction.
Crusher	1	NA	Processing aggregates.
Screener	1	NA	Processing aggregates.
Excavator	2	40 tons	Handling aggregates.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	4	100000	400000	Liters	Mobile equipment, generators, and heaters.
Gasoline	fuel	2	500	1000	Liters	Mobile equipment, generators, and heaters.
Lubes and Oils	hazardous	8	5	40	Gallons	Maintenance of mobile equipment.

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
4	Municipal equipment	Municipal water supply

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Municipal and Industrial Development	Hazardous waste	1600 L	Returned to south in sealed drums or lined bags, transported in 20 ft. shipping containers and disposed in accordance with regulatory procedures.	N/A

Environmental Impacts:

There are no residual effects expected subsequent to the implementation of Project mitigation and monitoring measures. A CEMP (attached) has been developed that details measure to be implemented to minimize negative environmental and socio-economic effects associated with the construction phase of the Project. A Request for Review (RFR) will be submitted to Fisheries and Oceans Canada – Fish and Fish Habitat Program (DFO-FFHPP) to confirm if a Fisheries Act Authorization (FAA) is required. This is a community project, being led by the Hamlet. The community is very much looking forward to this long-awaited benefit from improved safety and efficiency of sealift operations. The community does not anticipate any major effects on wildlife from noise and construction activities. The effects on wildlife from the Project will be minimal and temporary and no concerns regarding impacts to wildlife were expressed. There is very limited harvesting, if any, in or around the Project and hunters do not anticipate that construction will have any impacts on wildlife or their ability to continue subsistence activities such as hunting, fishing, trapping, and gathering. A summary of potential impacts is provided in Section 3 of the CEMP. Proposed mitigation measures are detailed in Section 4.2, Table 4-1 of the CEMP.

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

A new laydown area will be constructed approximately 500 m east of the easternmost extent of the current developed zones. The new laydown area will initially measure approximately 1.5 hectares (ha) but will retain the potential for further eastward or northward expansion. Due to the approximately 1V:10H ground slope in the proposed area, the laydown area will consist of a single bench, partially cut and partially filled, and covered by 0.3 m of processed gravel at a 4 % slope. Drainage ditches on the upland side will redirect surface water both east and west, and down toward the lakeshore. A new access road will be constructed to link the existing road with the laydown area. The road will be 135 m long, 10 m wide and consist of 1.2 m of pit-run fill covered by 0.3 m of processed gravel. The access road is not specifically designated as quarry or haul route because it is part of the permanent installation, though it will see some haul traffic as it is the primary access to the major area of construction. Drainage for the site will be a ditch cut alongside the road, and a culvert beneath to roadway access to the laydown area. A new landing ramp will be constructed to the edge of the lakeshore and will be accessible from the lower bench of the laydown area. The ramp will be 30 m wide to allow for two barges to unload simultaneously and will be surfaced with 0.5 m of processed gravel. The ramp will not extend below the HWL.

Description of Existing Environment: Physical Environment

The Project is occurring within municipal boundaries in a developed area with minimal natural habitat. The site is located between existing hamlet structures and the adjacent mine cargo marshalling yard. Adjacent road down to the shore is used a boat launch. Adjacent creek is referred to as "Garbage Creek" and drains a lake adjacent to the old hamlet landfill. The site is adjacent to an existing mine cargo marshalling area

Description of Existing Environment: Biological Environment

The Project is occurring within municipal boundaries in a developed area with minimal natural habitat, and sparse vegetation. There is no works below the High-Water Level (HWL).

Description of Existing Environment: Socio-economic Environment

Baker Lake is the fourth largest community in Nunavut with a population of 2,067 residents according to 2016 census data from Statistics Canada, which also noted a 10.5 % increase in population since 2011 (Statistics Canada, 2017). Considerable population growth and supporting services to the AEM mine has resulted in Baker Lake seeing a steady increase in sealift cargo. Baker Lake is also unique as the only in-land community in Nunavut, and navigating the Chesterfield Narrows to access the lake adds extra logistical complications to cargo delivery.

Miscellaneous Project Information

N/A

Identification of Impacts and Proposed Mitigation Measures

There are no residual effects expected subsequent to the implementation of Project mitigation and monitoring measures. A Construction Environmental Management Plan (CEMP) (attached) has been developed that details measure to be implemented to minimize negative environmental and socio-economic effects associated with the construction phase of the Project. A Request for Review (RFR) is submitted to Fisheries and Oceans Canada – Fish and Fish Habitat Program (DFO-FFHPP) to confirm if a Fisheries Act Authorization (FAA) is required. This is a community project, being led by the Hamlet. The community is very much looking forward to this long-awaited benefit from improved safety and efficiency of sealift operations. The community does not anticipate any major effects on wildlife from noise and construction activities. The effects on wildlife from the Project will be minimal and temporary and no concerns regarding impacts to wildlife were expressed. There is very limited harvesting, if any, in or around the Project and hunters do not anticipate that construction will have any impacts on wildlife or their ability to continue subsistence activities such as hunting, fishing, trapping, and gathering. A summary of potential impacts is provided in Section 3 of the CEMP. Proposed mitigation measures are detailed in Section 4.2, Table 4-1 of the CEMP.

Cumulative Effects

All impacts from the Project were considered either "Positive" or "Negative and Mitigatable" and thus no residual effects are expected subsequent to implementation of mitigation and monitoring measures.

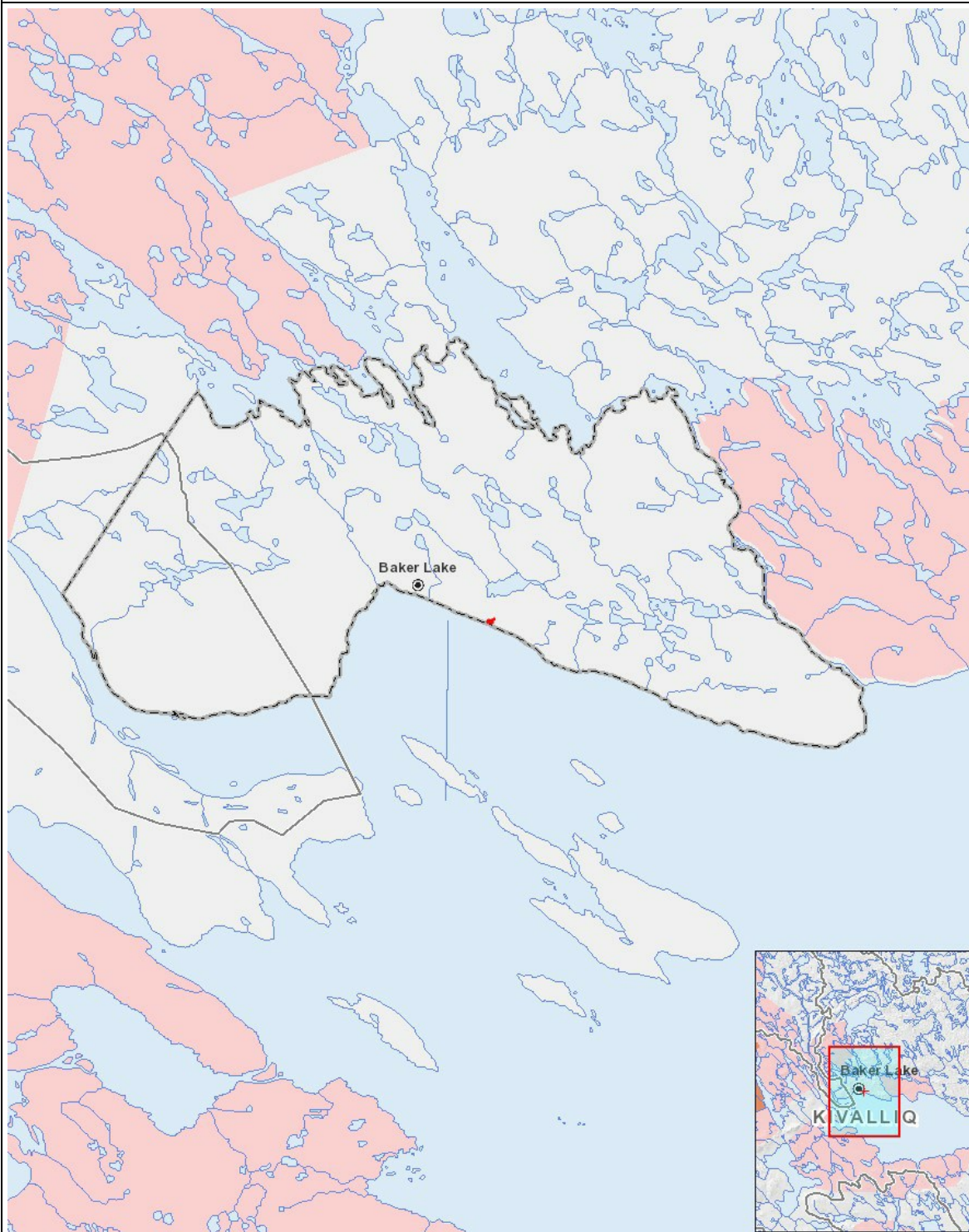
Impacts

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																									
Access Road		-	-	-	-	M	-	-	-	M	M	M	M		M	M	M	M	-		-	P	M	M	M
Municipal and Industrial Development		-	-	-	-	M	-	-	-	M	M	M	M		M	M	M	M	-		-	P	M	M	M
Operation																									
Access Road		-	-	-	-	-	-	-	-	-	-	M	M		-	-	-	-	-		-	P	P	P	P
Municipal and Industrial Development		-	-	-	-	-	-	-	-	-	-	M	M		-	-	-	-	-		-	P	P	P	P
Decommissioning																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Project Location



List of Project Geometries

- | | | |
|---|----------|----------------------------------|
| 1 | polyline | Hamlet of Baker Lake New Sealift |
|---|----------|----------------------------------|