



NIRB Application for Screening #126174

Investigative Studies for the Iqaluit Nukkiksautiit Project

Application Type:	New
Project Type:	Scientific Research
Application Date:	Friday, April 25, 2025
Period of operation:	from 2025-07-02 to 2025-10-11
Project Proponent:	Heather Shilton Nunavut Nukkiksautiit Corporation P.O. Box 1228 Iqaluit NU X0A0H0 Canada Phone Number:: 8672224658, Fax Number::

DETAILS

Non-technical project proposal description

English: See attached description.

French: To be translated and submitted

Inuktitut: To be translated and submitted

Inuinnaqtun: To be translated and submitted

Personnel

Personnel on site: 10

Days on site: 119

Total Person days: 1190

Operations Phase: from 2025-07-02 to 2025-10-11

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Potential flooded extent of the reservoir	Airstrip use or construction	Crown	Hydrometric data collection currently ongoing.	Unknown. Archaeological studies to commence Summer 2025.	60km to Iqaluit. Near a caribou Calving Area.
Potential flooded extent of the reservoir	Baseline data	Crown	Hydrometric data collection currently ongoing.	Unknown. Archaeological studies to commence Summer 2025.	60km to Iqaluit. Near a caribou Calving Area.
Potential flooded extent of the reservoir	Camp	Crown	Hydrometric data collection currently ongoing.	Unknown. Archaeological studies to commence Summer 2025.	60km to Iqaluit. Near a caribou Calving Area.
Potential flooded extent of the reservoir	Aerial surveys	Crown	Hydrometric data collection currently ongoing.	Unknown. Archaeological studies to commence Summer 2025.	60km to Iqaluit. Near a caribou Calving Area.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	Authorization to Use Water / Deposit Waste Without a Licence	Not Yet Applied		
Government of Nunavut, Department of Environment	Wildlife Research Permit	Not Yet Applied		
Indigenous and Northern Affairs Canada	CIRNAC - Class A Land Use Permit	Not Yet Applied		
Fisheries and Oceans Canada	Fish for Scientific Purposes Permit	Not Yet Applied		
Other	Government of Nunavut, Department of Culture and Heritage - Class 1 Archaeological Research Permit	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Helicopter and fixed wing plane	
Water	Small open boat with outboard motor for travel across the potential reservoir	
Land	By foot only	

Project accomodation types

Temporary Camp

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
AutoSalt water flow monitoring systems	2	24.5 x 23 x 48 tall	The two AutoSalt monitoring systems will be commissioned in the Mckeand River to monitor water flow for a one-year period.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	350	20	7000	Liters	ATV Use
Diesel	fuel	200	20	4000	Liters	Camp Gensets
Diesel	fuel	526	20	10520	Liters	Tent Heat

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	Treatment of local surface water via pumps.	Unknown at this point but in proximity to the camp.

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Camp	Combustible wastes	Unknown	Incinerated onsite using a Smart Ash incinerator, with remaining ash and non-incinerable waste slung back to Iqaluit.	N/A
Camp	Greywater	Unknown	Treated using a portable system or containerized for safe disposal.	N/A
Camp	Sewage (human waste)	Unknown	Collected in sealed containers and regularly flown out for proper disposal in Iqaluit.	N/A

Environmental Impacts:

Unknown.

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

Description of Existing Environment: Biological Environment

Description of Existing Environment: Socio-economic Environment

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Cumulative Effects

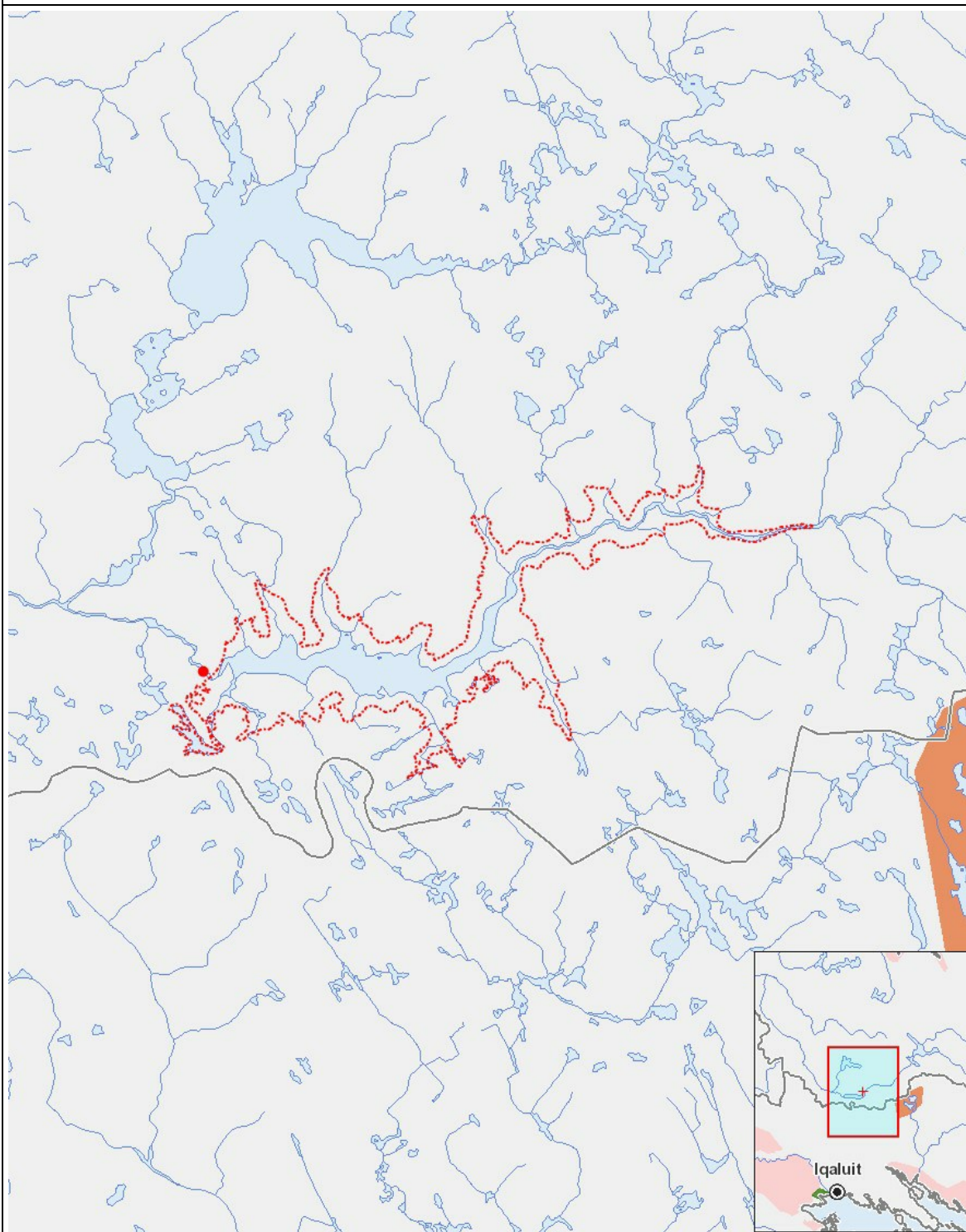
Impacts

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
Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decommissioning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Project Location



List of Project Geometries

- | | | |
|---|----------|---|
| 1 | polyline | Potential flooded extent of the reservoir |
| 2 | point | Potential outflow location |