



NIRB Application for Screening #126292 Long Term Water Project (LTWP)

Application Type:	New
Project Type:	Municipal and Industrial Development
Application Date:	Wednesday, December 31, 2025
Period of operation:	from 2029-11-01 to 2099-11-01
Project Proponent:	Kevin Kerr City of Iqaluit 100 1085 Mivvik Street Iqaluit Nunavut X0A0H0 Canada Phone Number:: 9026987872, Fax Number::

DETAILS

Non-technical project proposal description

English: See water licence application executive summary in documents

French: See water licence application executive summary in documents

Inuktitut: See water licence application executive summary in documents

Personnel

Personnel on site: 65

Days on site: 1200

Total Person days: 78000

Operations Phase: from 2026-06-01 to 2029-10-31

Operations Phase: from 2029-11-01 to 2099-11-01

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
Long Term Water Project (LWTP)	Access Road	Municipal	Undeveloped land	Archaeological surveys have been completed, and sites that overlap the project development area have been mitigated.	The project is located entirely within municipal boundaries
Long Term Water Project (LWTP)	Quarry/Borrow pit	Municipal	Undeveloped land	Archaeological surveys have been completed, and sites that overlap the project development area have been mitigated.	The project is located entirely within municipal boundaries
Long Term Water Project (LWTP)	Municipal and Industrial Development	Municipal	Undeveloped land	Archaeological surveys have been completed, and sites that overlap the project development area have been mitigated.	The project is located entirely within municipal boundaries

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Iqaluit	Open house	community -wide	2023-06-07
Iqaluit	Open house	community-wide	2023-06-09
Iqaluit	Open house	community-wide	2024-11-27
Iqaluit	Open house	community-wide	2024-11-28
Iqaluit	Board	Iqaluit Shooting Association	2025-03-18
Iqaluit	Representative	Nunavut Research Institute	2023-06-07
Iqaluit	Representatives	Nunavut Research Institute	2024-11-28
Iqaluit	Board	Hunters and Trappers Association	2023-06-08
Iqaluit	Board	Hunters and Trappers Association	2025-03-19
Iqaluit	Representative	Qulliq Energy Corporation	2024-10-18
Iqaluit	Representatives	Qulliq Energy Corporation	2025-03-17
Iqaluit	Representatives	Qikiqtani Inuit Association	2023-03-23

Iqaluit	Representatives	Qikiqtani Inuit Association	2023-04-27
Iqaluit	Representatives	Qikiqtani Inuit Association	2024-10-29

Authorizations

Indicate the areas in which the project is located:

South Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	Renewal and amendment to Type A Water Licence 3AM-IQA1626	Applied, Decision Pending	2016-06-16	2026-06-16

Project transportation types

Transportation Type	Proposed Use	Length of Use
Land	Pick-ups, heavy equipment	

Project accomodation types

Community

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Light utility vehicles and personal cars	5 to 6	N/A	Transport
Excavator 30 tons with breakers	1	34.7 ft x 10.5 ft x 11.7 ft	Excavation
Excavator 45 tons with breakers	2	38.4 ft x 11.2 ft x 12.28 ft	Excavation
Excavator 67 tons with breakers	1	40 ft x 12 ft x 13.4 ft	Excavation
Front end loaders	1	13.7 ft x 8.25 ft x 10.7 ft	Excavation
Rock trucks	2 to 3	18.1 ft x 12.15 ft x 11.27 ft	Earth moving and grading
Bulldozers D8	1	27.5 ft x 14.3 ft x 11.8 ft	Earth moving and grading
Graders	1	32 ft x 8 ft x 10.5 ft	Earth moving and grading
Compactors	2 to 3	17.38 ft x 7.58 ft x 10.14 ft	Compacting
Tri-axle haulage trucks	0	N/A	Transport of large equipment
Tractor-trailers with floats for transporting equipment.	2 to 3	N/A	Transport of large equipment
Boom cranes (40-ton crane)	2	N/A	Transport of materials
Boats	2	N/A	Transport of materials
Air track drilling equipment	2 to 3	N/A	Required to advance blasting boreholes
Rock crusher	1	N/A	Crushing of excavated and blasted materials
Electrical generators	4 to 5	N/A	Generate electricity on areas where no electrical distribution is available
Concrete plant	1	N/A	Production of concrete for pump stations
Compressors	2 - 3	N/A	Air compressors for pneumatic tools use

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	2	50000	100000	Liters	Heavy Equipment
Gasoline	fuel	2	5000	10000	Liters	Pickup Trucks / Pumps / Generators
Propane	fuel	20	100	2000	Lbs	Welding / Equipment Repairs / Energy

Other	fuel	20	100	2000	Lbs	Oxy-AcetyleneProposed for: Welding / Equipment Repairs / Energy
Explosives	hazardous	78	20000	1560000	Kg	New Reservoir / Pump Station / Outlet
Oil	hazardous	22	207	4554	Liters	Heavy Equipment
Diesel Exhaust Fluid (DEF)	hazardous	6	1000	6000	Liters	Heavy Equipment
Grease	hazardous	200	1	200	Lbs	Heavy Equipment

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
83	Permanent water intake structures	Lake Qikiqtaaluk and Niaqunguk (Apex) River

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Information is not available				

Environmental Impacts:

New infrastructure and water withdrawals introduce potential impacts. Key impacts and mitigation measures include:

- Groundwater and surface water: Withdrawals from Lake Qikiqtalik and the Apex River may lower water levels; pumps will be operated within DFO guidelines.
- Fish and aquatic habitat: Pump intakes will be screened; pumping will occur only when river flows exceed thresholds.
- Vegetation and wildlife: Clearing tundra vegetation will be minimized; pipeline alignment avoids sensitive habitats.
- Permafrost and soils: Construction will follow geotechnical recommendations to prevent or minimize thawing; reservoir liners will be used.
- Sediment control measures and spill response will be implemented for construction activities.
- Archaeological impact assessment Archaeological sites identified within the project area boundaries have been mitigated and are no longer considered significant and hold limited to no interpretive value.
- Environmental Protection Plan: mitigation plans (sediment control, spill response) are provided

Additional Information

SECTION A1: Project Info

See the City's water licence renewal and amendment application, Attachment 9: Preliminary Design Report

SECTION A2: Allweather Road

See the City's water licence renewal and amendment application, Attachment 9: Preliminary Design Report

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

See the City's water licence renewal and amendment application, Attachment 9: Preliminary Design Report

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

See the City's water licence renewal and amendment application, Attachment 9: Preliminary Design Report

Description of Existing Environment: Physical Environment

See the City's water licence renewal and amendment application, Attachment 29: Environmental Screening Report

Description of Existing Environment: Biological Environment

See the City's water licence renewal and amendment application, Attachment 29: Environmental Screening Report, and Attachment 30: Fish and Fish Habitat Report.

Description of Existing Environment: Socio-economic Environment

See the City's water licence renewal and amendment application, Attachment 29: Environmental Screening Report, and Attachment 31: Archaeological Assessment

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

See the City's water licence renewal and amendment application, Attachment 29: Environmental Screening Report

Cumulative Effects

See the City's water licence renewal and amendment application, Attachment 29: Environmental Screening Report

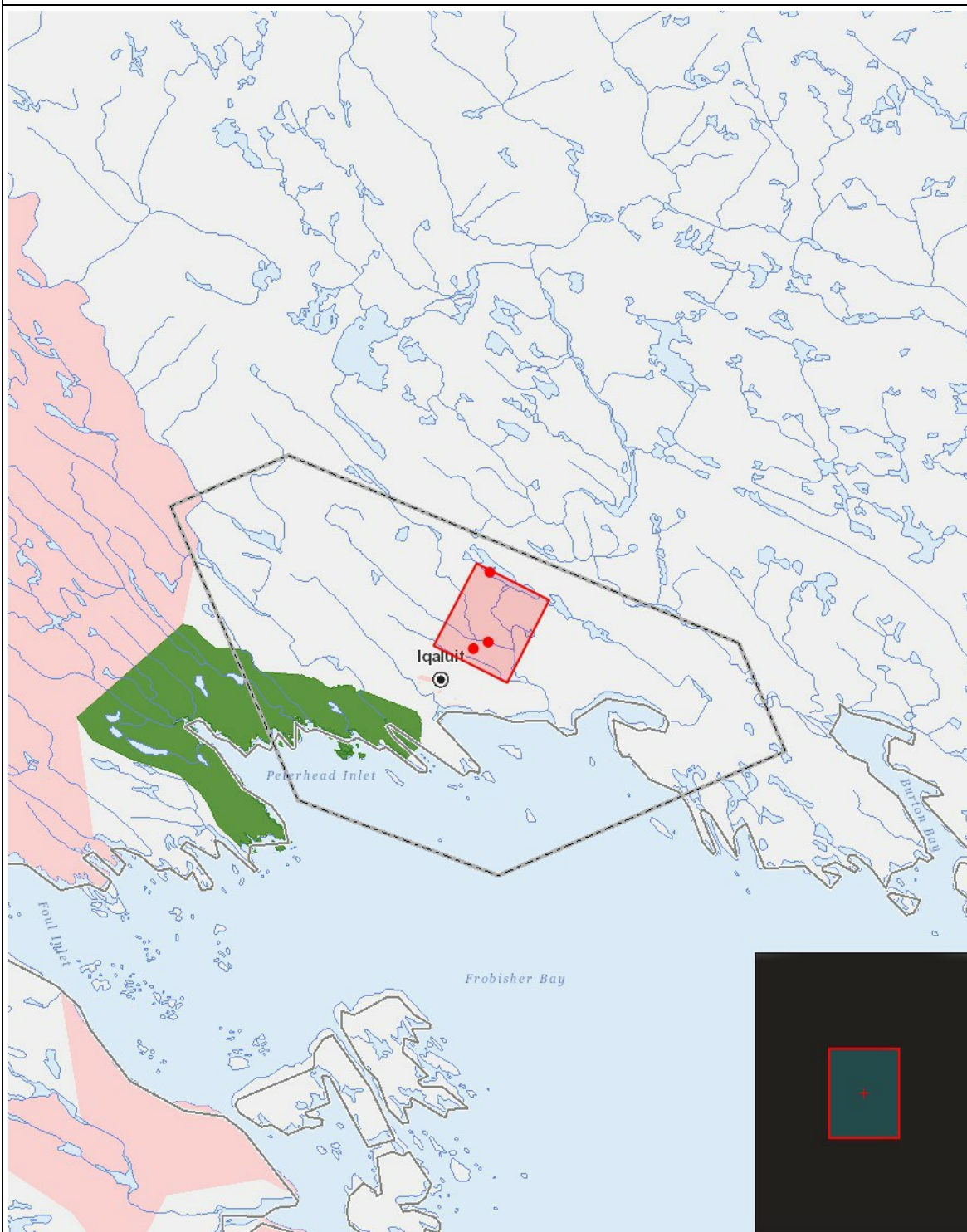
Impacts

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																									
Quarry/Borrow pit		-	M	M	-	M	-	M	M	M	-	M	M		M	M	M	M	-		M	P	P	P	P
Access Road		-	M	M	-	M	-	M	M	M	-	M	M		M	M	M	M	M		M	P	P	P	P
Municipal and Industrial Development		-	M	M	-	M	-	M	M	M	-	M	M		M	M	M	M	-		M	P	P	P	P
Operation																									
Access Road		-	-	-	-	M	-	-	-	-	-	M	M		-	-	-	M	-		-	P	P	P	P
Municipal and Industrial Development		-	-	-	-	M	-	-	-	-	-	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 | polygon | Long Term Water Project (LWTP) |
| 2 | point | Water intake location in Lake Qikiqtaaluk |
| 3 | point | Water intake in Apex River |
| 4 | point | Approximate location of new water reservoir |