



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

Application Type:	New
Project Type:	Municipal and Industrial Development
Application Date:	Tuesday, January 13, 2026
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: Type A Water Licence 3AM-IQA1626 currently authorizes the City of Iqaluit to operate its municipal water supply and waste management facilities. The City is seeking to renew the licence as it expires on June 16, 2026. Facilities operated under the current licence include: • Permanent water supply infrastructure including the Lake Geraldine Reservoir and water treatment plant • West 40 Landfill • North 40 Landfill and Waste Transfer Station, added to the current licence under an amendment in 2021 • Sewage treatment plant, sewage lagoon and sludge management facility • Temporary water supply facilities to supplement the permanent water supply Between 2018 and 2022, the City sought several emergency amendments to the current licence to withdraw water from new sources to meet the City's growing water demand. The City's recently developed Long Term Water Supply Project will meet the City's continued growth for the next 100 years. Thus, this application seeks to renew the current licence to include the above-listed water use and waste management facilities as well as to amend the licence to incorporate the Long Term Water Supply Project. The Long Term Water Supply Project includes the construction and operation of the following permanent raw water supply infrastructure: • Water intakes in the Niaqunngut (Apex) River and Lake Qikiqtaalik, and pumphouses adjacent to each intake • A new reservoir located immediately east of Lake Geraldine Reservoir • Pipelines to convey raw water from the two new water sources to the new reservoir • A pipeline and outfall to feed water from the new reservoir to Lake Geraldine • All weather access roads between the new facilities The additional water supply and storage will add to the existing water supply and water treatment facilities. All the proposed facilities are situated inside the City's boundaries. The City plans to construct new facilities over the period of mid-2026 to October 2029. It will require the development of several quarries, the operation of heavy equipment, and the storage and use of fuel, explosives, and lubricating oils and greases for equipment maintenance. A workforce of approximately 65 personnel is expected, and workers will be housed in existing accommodation within the city. Until the above facilities are operational, it will be necessary to continue to operate existing temporary facilities to provide pumping water from Niaqunngut (Apex) River, as previously authorized under an emergency amendment. The Long Term Water Supply Project was subject to a land use planning conformity review by the Nunavut Planning Commission in April 2025 (NPC File No. 150798). To help meet the schedule, the City of Iqaluit is requesting the Nunavut Impact Review Board to conduct its environmental screening concurrently with the Nunavut Water Board's processing of this water licence application in a coordinated manner.

French: Le permis de type A – 3AM-IQA1626 – permet actuellement à la Ville d'Iqaluit d'exploiter ses installations d'approvisionnement en eau et de gestion de déchets. La Ville souhaite le renouvellement du permis qui arrive à échéance le 16 juin 2026. Les installations exploitées en vertu du permis actuel incluent : • L'infrastructure d'approvisionnement en eau permanente, y compris le réservoir du lac Geraldine, et l'usine de traitement de l'eau • Le site d'enfouissement West 40 • Le site d'enfouissement North 40 et la station de transfert de déchets, ajoutés au permis actuel en vertu d'un amendement en 2021 • L'usine de traitement des eaux usées et l'installation de gestion du bassin d'eaux usées et des boues • Les installations d'approvisionnement en eau temporaire pour compléter l'approvisionnement en eau permanent Entre 2018 et 2022, la Ville a demandé plusieurs modifications d'urgence à son permis actuel pour puiser de l'eau à partir de nouvelles sources afin de répondre à sa demande croissante en eau. Le projet d'approvisionnement en eau à long terme récemment élaboré par la Ville assurera sa croissance au cours des 100 prochaines années. Ainsi, cette demande vise à renouveler le permis actuel en incluant les installations d'approvisionnement en eau et de gestion de déchets ci-dessus, de même qu'à modifier le permis pour incorporer le projet d'approvisionnement en eau à long terme. Le projet d'approvisionnement en eau à long terme prévoit la construction et l'exploitation de l'infrastructure suivante d'approvisionnement en eau non traitée permanente : • Des prises d'eau dans la rivière Niaqunngut (Apex) et le lac Qikiqtaalik, et des stations de pompage adjacentes à chaque prise d'eau • Un nouveau réservoir situé juste à l'est du réservoir du lac Geraldine • Des conduites destinées à acheminer l'eau non traitée depuis les deux nouvelles sources d'approvisionnement vers le nouveau réservoir • Une conduite et un exutoire pour acheminer l'eau à partir du nouveau réservoir du lac Geraldine • Des chemins d'accès entre les nouvelles installations accessibles toute l'année L'approvisionnement et le stockage supplémentaires en eau viendront s'ajouter aux installations actuelles d'approvisionnement et de traitement de l'eau. Toutes les installations proposées sont situées à l'intérieur des limites de la ville. La Ville prévoit construire les nouvelles installations entre la seconde partie de 2026 et octobre 2029. Ces travaux exigeront l'aménagement de plusieurs

[illegible]

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
Municipal and Industrial Development	Hazardous	1 tonne	City of Iqaluit's waste transfer station	None
Municipal and Industrial Development	Non-Combustible wastes	100 tonnes	City of Iqaluit's landfill	None, possibly salvage

Environmental Impacts:

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

- Groundwater and surface water: Withdrawals from Lake Qikiqtaalik 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

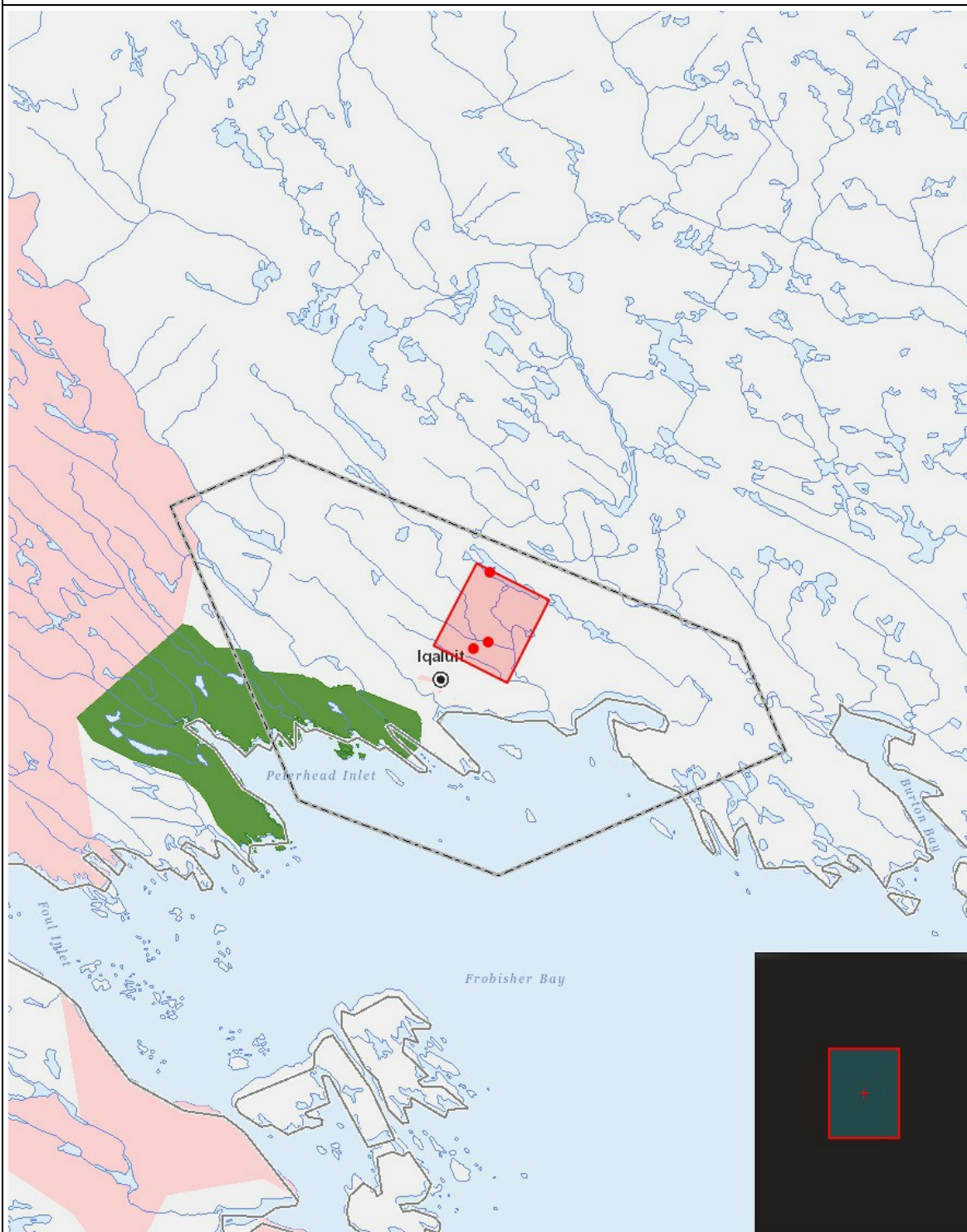
Impacts

Identification of Environmental Impacts

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(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 Qikiqtaalik |
| 3 | point | Water intake in Apex River |
| 4 | point | Approximate location of new water reservoir |