

Operations Phase: from 2026-04-01 to 2046-03-31

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 Lot Boundary_Igloolik	Fuel and chemical storage	Commissioners	The proposed lot is located on unsurveyed, untitled Commissioner's land, east of Lot 1000 Plan 1567 (airport property), and approximately 225 metres north of the PPD bulk fuel facility. The terrain within and surrounding the proposed lot is made up of broken rock and gravel and has not been previously developed. There are a number of sea cans located within the proposed lot that are suspected to belong to Canadrill as they currently occupy the adjacent lands to the northwest.	An archaeological impact assessment will be carried out in July 2021 to determine if archaeological sites are in potential conflict with the project and identify any necessary avoidance or mitigation measures.	The proposed power plant lot is located within the Municipal Boundary of the Hamlet of Igloolik, approximately 1.6 kilometres from the community core. There are no designated wildlife areas, marine protected areas, territorial or national parks or Inuit owned lands in conflict with the power plant location. There are no natural drainages, or watercourses within 100 metres of the project location.
Proposed Lot Boundary_Igloolik	Municipal and Industrial Development	Commissioners	The proposed lot is located on unsurveyed, untitled Commissioner's land, east of Lot 1000 Plan 1567 (airport property), and approximately 225 metres north of the PPD bulk fuel facility. The terrain within and surrounding the proposed lot is made up of broken rock and gravel and has not been previously developed. There are a number of sea cans located within the proposed lot that are suspected to belong to Canadrill as they currently occupy	An archaeological impact assessment will be carried out in July 2021 to determine if archaeological sites are in potential conflict with the project and identify any necessary avoidance or mitigation measures.	The proposed power plant lot is located within the Municipal Boundary of the Hamlet of Igloolik, approximately 1.6 kilometres from the community core. There are no designated wildlife areas, marine protected areas, territorial or national parks or Inuit owned lands in conflict with the power plant location. There are no natural drainages, or watercourses within 100 metres of the

		the adjacent lands to the northwest.		project location.
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Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Igloolik	Hamlet Land Development Officer	Hamlet of Igloolik	2021-06-04
Igloolik	Hamlet Chief Administrative Officer	Hamlet of Igloolik	2020-08-21
Igloolik	Hamlet Council	Hamlet of Igloolik	2020-08-11

Authorizations

Indicate the areas in which the project is located:

South Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Hamlets and Municipalities	Land application. Motion #77 approving the land application received 2021-06-17	Active	2021-06-17	
Government of Nunavut, Community Government & Services	Lease Agreement for Commissioner's Land. In progress subject to motion received from the Hamlet.	Applied, Decision Pending		
Hamlets and Municipalities	Development Permit	Not Yet Applied		
Government of Nunavut, Community Government & Services	Building Permit	Not Yet Applied		
Government of Nunavut, Department of Economic Development & Transportation	Nunavut Airport Authority - Project Review and No Objection Letter	Not Yet Applied		
Transport Canada	Aeronautical Assessment	Not Yet Applied		
Other	NavCanada - Land Use Proposal Submission Review and No Objection Letter	Not Yet Applied		
Nunavut Water Board	Hydrostatic Test - Type B license for water use and disposal of test water (to be completed by the construction contractor)	Not Yet Applied		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Construction labour and some materials will be transported to the community by air	
Water	Construction equipment and materials will primarily be transported to the community by sea lift	

Project accommodation types

Community

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Excavator	1		excavation
Backhoe	1		excavation, material movement
Bulldozer	1		material excavation and movement
Grader	1		civil construction, level soil/gravel as needed
Compactor Machine	1		site compaction as required
Articulated Truck (Dump Truck)	1		transport of materials to, from, within construction site
Tower Crane	1		Lifting materials to height
Pile Boring/Drilling Equipment	1		pile installation
Boom Truck	1		lifting construction materials to height
Telehandler	1		carry/transport heavy loads on site
Fork Lift	1		carry/transport materials
Trailer	1		transport materials to, from, and with the construction site
Concrete Mixer	1		mix and pour concrete
Welding Machine	2		welding and steel cutting
Generator	4		Four generators will be installed in the power plant with a generating capacity of 3,450 kilowatts

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Diesel	fuel	0	0	0	Liters	Fuel will be required during construction for all equipment used on site. Fuel storage and handling during construction will be the responsibility of the contractor. Details regarding the location and volume of fuel storage and location of equipment refueling during construction are

						not known at this time. The contractor will be required to have a fuel management plan.
Diesel	fuel	2	90000	180000	Liters	Fuel will be used/stored at the power plant to run the generators. Fuel will be stored in above-ground horizontal fuel storage tanks.
Solvent (Varsol)	hazardous	4	205	820	Liters	generator maintenance and operation
Engine Oil	hazardous	16	205	3280	Liters	Generator operation and maintenance
Propylene Glycol	hazardous	1	2000	2000	Liters	Power plant operations, heat transfer

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	To be determined by the construction contractor.	To be determined by the construction contractor.

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Municipal and Industrial Development	Combustible wastes	unknown	Disposal of construction waste will be the responsibility of the contractor. If permitted by the Hamlet, some waste may be disposed of at the local landfill. During operations, QEC will dispose of domestic waste in the local landfill if permitted by the Hamlet. Waste that is not permitted in the local landfill will be shipped south as part of QECs annual waste shipment.	none
Fuel and chemical storage	Combustible wastes	unknown	Disposal of construction waste will be the responsibility of the contractor. If permitted by the Hamlet, some waste may be disposed of at the local landfill. During operations, QEC will dispose of domestic waste in the local landfill if permitted by the Hamlet. Waste that is not permitted in the local landfill will be shipped south as part of QECs annual waste shipment.	none
Fuel and chemical storage	Hazardous waste	2,050 Litres	The amount of liquid waste during operation will vary annually. Waste fuel, oil, glycol and solvent will be collected in drums, stored within secondary containment and shipped south for disposal.	none
Fuel and chemical storage	Non-Combustible wastes	unknown	The amount of non-combustible waste generated during construction is unknown. The construction	none

			contractor will be responsible for the management and proper disposal of non-combustible waste. The amount of non-combustible waste generated during operation will vary annually. The material will be stored in quatrex bags or other appropriate containment and shipped south for disposal.	
Municipal and Industrial Development	Non-Combustible wastes	unknown	The amount of non-combustible waste generated during construction is unknown. The construction contractor will be responsible for the management and proper disposal of non-combustible waste. The amount of non-combustible waste generated during operation will vary annually. The material will be stored in quatrex bags or other appropriate containment and shipped south for disposal.	none
Municipal and Industrial Development	Overburden (organic soil, waste material, tailings)	unknown	Disposal of overburden and soil/rock excavated for the power plant to be determined by the contractor in communication with the Hamlet. Volume to be determined. If possible, some overburden material may be used to build up other areas within the plant site.	none

Environmental Impacts:

Please refer to the attached Project Description document (Table 4). Note: The environmental impact identified for permafrost, sediment and soil quality, air quality, and noise levels should be negative/mitigable for the construction and operation phases of the Municipal and Industrial Development and Fuel and Chemical Storage activities. The selection changes automatically to negative/non-mitigable every time this page is viewed.

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

Please refer to the attached Project Description document.

Description of Existing Environment: Physical Environment

Please refer to the attached Project Description document.

Description of Existing Environment: Biological Environment

Please refer to the attached Project Description document.

Description of Existing Environment: Socio-economic Environment

Please refer to the attached Project Description document.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Please refer to the attached Project Description document.

Cumulative Effects

Please refer to the attached Project Description document.

Impacts

Identification of Environmental Impacts

	PHYSICAL										BIOLOGICAL										SOCIO-ECONOMIC				
	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	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health			
Construction																									
Fuel and chemical storage	-	-	M	-	-	-	-	M	-	M	M	-	-	-	-	-	-	U	P	-	P	-			
Municipal and Industrial Development	-	-	M	-	-	-	-	M	-	M	M	-	-	-	-	-	-	U	P	-	P	-			
Operation																									
Fuel and chemical storage	-	-	M	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	-	-	P	-			
Municipal and Industrial Development	-	-	M	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	-	-	P	-			
Decommissioning																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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

Project Location



List of Project Geometries

- | | | |
|---|---------|---|
| 1 | polygon | Proposed Lot Boundary_Igloolik |
| 2 | point | FourCorners_706_Igloolik_PwrPlnt_Location |