



NIRB Uuktuutinga Ihivriughikhamut #125628

Igloolik New Power Plant

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Ikumatiit Alguyaanut Havakvik

Uuktuutinga Ublua: 7/17/2021 2:11:30 PM

Period of operation: from 0001-01-01 to 0001-01-01

Piumayaat Angirutinga: from 0001-01-01 to 0001-01-01

Havauhikhaq Ikayuqtinga: Megan Larose
Qulliq Energy Corporation
PO Box 250
Iqaluit Nunavut X0A 0H0
Canada
Hivayautit Nampanga:: 867 979 7553, Kayumiktukkut Nampanga::

Operations Phase: from 2024-04-01 to 2026-03-31

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

Post-Closure Phase: from to

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
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	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

		proposed lot that are suspected to belong to Canadrill as they currently occupy the adjacent lands to the northwest.	location.
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Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
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

Angittauvaaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

South Baffin

Angittauvaaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
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		
Nunavut Kavamanga, Pivalliyuliyikkut Ingilrayuliyitkullu	Nunavut Airport Authority - Project Review and No Objection Letter	Not Yet Applied		
Tingmiliqiyiitkut Kaanatami	Aeronautical Assessment	Not Yet Applied		
Alaanut	NavCanada - Land Use Proposal Submission Review and No Objection Letter	Not Yet Applied		
Nunavut Imaligiyyit Katimayit	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	Qanuq Atuqtauniarmangaa	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 accomodation types

Nunauyuq

Ihuaqtivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
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

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
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

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
0	To be determined by the construction contractor.	To be determined by the construction contractor.

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Municipal and Industrial Development	Ikulalaaqtun iqqakuuvaluin	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	Ikulalaaqtun iqqakuuvaluin	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	Hivuuranaqtun iqqakuuvaluin	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	Ikulalimanngittun iqqakuuvaluin	unknown	The amount of non-combustible waste generated during construction is unknown. The	none

			<p>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.</p>	
Municipal and Industrial Development	Ikulalimangittun iqqakuuvaluin	unknown	<p>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.</p>	none
Municipal and Industrial Development	Atakuin (halumaiqtun nunan, iqqakuuvaluillu uyaqqiqivingmin)	unknown	<p>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.</p>	none

Avatiliriniqmut Ayurhautingit:

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.

Qanurittuq Ittunik Avatinga: Avatingalluanga

Please refer to the attached Project Description document.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Please refer to the attached Project Description document.

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Please refer to the attached Project Description document.

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Please refer to the attached Project Description document.

Tamatkiumayunik Ihuikgutivaktunik

Please refer to the attached Project Description document.

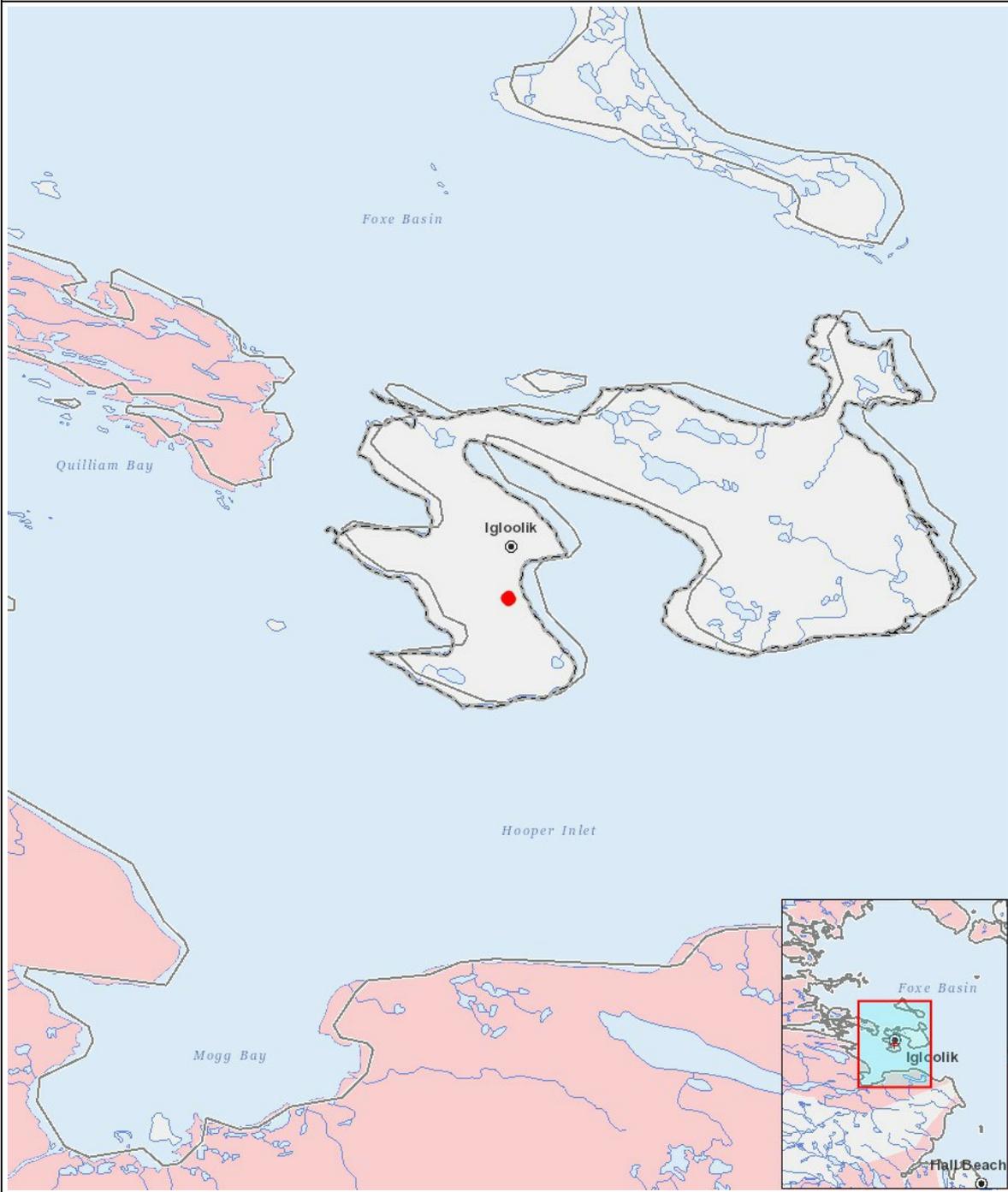
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhauingit

	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
Havakvinga																									
Fuel and chemical storage	-	-	M	-	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	U	P	-	P	-	
Municipal and Industrial Development	-	-	M	-	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	U	P	-	P	-	
Aulapkaininnga																									
Fuel and chemical storage	-	-	M	-	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	-	-	-	P	-	
Municipal and Industrial Development	-	-	M	-	-	-	-	-	M	-	M	M	-	-	-	-	-	-	-	-	-	-	P	-	
Piiqtauniq																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(P = Nakuuyuuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	polygon	Proposed Lot Boundary_Igloolik
2	point	FourCorners_706_Igloolik_PwrPlnt_Location