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ᐱᑕᓂᑏᓂᓴᑭᑦ ᑲᓄᓇᑦ ᑐᑭᓂᓴᓄᑦ:	Scientific Research
ᑎᓴᓂᓴᓄᑦ ᑭᐱᓴᓄᑦ ᑕᑖᑎᓴᓄᑦ:	6/14/2022 1:07:55 PM
Period of operation:	from 0001-01-01 to 0001-01-01
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ᐱᑕᓂᑏᓂᓴᑭᑦ ᑲᓄᓇᑦ ᑐᑭᓂᓴᓄᑦ:	Derek Allerton Quллиq Energy Corporation (QEC) P.O. Box 250 Iqaluit Nunavut X0A 0H0 Canada ᑎᓴᓂᓴᓄᑦ ᑕᑖᑎᓴᓄᑦ: 8679797586, ᓴᓂᓴᓴᓄᑦ: 8679797519

Post-Closure Phase: from to

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QEC_Baker_Lake_Proposed_Drillhole_n83z14_20220401	Drilling	Municipal	The hole will be drilled to test for the potential for Geothermal Energy on QEC's Baker Lake Power Plant Lot 447.	There is a low potential for archeological/paleontological artifacts/sites as the drillhole is located in a pre-disturbed lot within the Hamlet of Baker Lake. If an artifact/site is discovered all work in the area will halt and the Project Supervisor will immediately contact the GN Department of Culture and Heritage.	Within the municipal boundary of eth Hamlet of Baker Lake.

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የፊልም ስም	Shawn Attungala	Mayor, Hamlet of Baker Lake - Letter of Support	2019-02-22
የፊልም ስም	Mayor & SAO	Hamlet of Baker Lake Phone call and review of emailed Powerpoint presentation	2020-07-30
የፊልም ስም	Sheldon Dorey	SAO Hamlet of Baker Lake provided forms for working in Municipality	2020-03-16
የፊልም ስም	Sheldon Dorey	SAO Hamlet of Baker Lake phone call regarding community consultation preparation	2020-04-03
የፊልም ስም	Sheldon Dorey	SAO Hamlet of Baker Lake community consultation protocols due to Covid-19 Pandemic	2020-06-10

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Project transportation types

Transportation Type	ገጽ ፩ ለገጽ ፩ ለገጽ ፩	Length of Use
Land	Flatbed truck to mob/demob drill & Pick up Truck for personnel. Only on existing roads and within Lot 447..	

Project accomodation types

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Truck	2	Pickup	Transport crew and equipment to and from drillsite.
Truck	1	Water	Supply drillhole with water if source to far to directly pump.
Diamond Drill	1	Zinex A5 or similar	Drill test hole for geothermal energy potential.
Pump	1	Water	Supply drill with water.
Tank	1	Water	Supply drill with water.
Tank	1	Mix	Mix additives for drilling fluids.
Generator	1	Diesel - 20 Kw	Supply power to drill.
Truck	1	Flatbed	Mobilize and demobilize drill and equipment to site.

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Diesel	fuel	5	205	1025	Liters	Fuel for diamond drill.
Gasoline	fuel	1	205	205	Liters	Fuel for drilling equipment.
Propane	fuel	2	100	200	Lbs	Fuel for water heater.
CaCl2	hazardous	50	50	2500	Lbs	Antifreeze
Oil	hazardous	20	1	20	Liters	Hydraulic and motor oil for drilling equipment.
Cleaning Supplies	hazardous	5	1	5	Liters	Cleaning products such as degreasers, Javex and hand sanitizer

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100	Water will either be acquired directly from a source using a pump or will be brought to site via a water truck. The water intake for drilling will be screened as per DFO requirements to prevent fish.	Water source will be near the drillhole within the Municipal boundary of the Hamlet of Baker Lake. If a water source is not able to be found, water delivery may be contracted from the Hamlet.

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Drilling	ᐃᑦᑕᑦᑕᑦ ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	Minimal	The small amount of combustible waste such as meal and paper products produced during each shift can be disposed of at drilling personnel accommodations. Anything else such as cardboard will be disposed of at the Baker Lake waste facility.	QEC currently has timber for the rig matting located at their Bid Construction site to be transferred to the drillsite when needed. When the drillhole is completed the timber will be dismantled, bundles and stored for future use.
Drilling	ᐃᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	100m3/day	QEC currently has timber for the rig matting located at their Bid Construction site to be transferred to the drillsite when needed. When the drillhole is completed the timber will be dismantled, bundles and stored for future use.	If available, coarse gravel will be placed in the bottom of the sump to provide filtration, and supports will be built on the sides to prevent slumping. When full, sumps will be covered with enough material to allow for future ground settlement.
Drilling	ᐃᑦᑕᑦᑕᑦᑕᑦ	Minimal	A hazardous waste storage area will be established adjacent to the main fuel cache at the drill site within secondary containment until they are backhauled to a registered hazardous waste receiver/ disposal facility.	All hazardous wastes will be sealed in appropriate containers, labeled, documented. A waste manifest will accompany hazardous waste in transit and all parties involved will be properly accredited.
Drilling	ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	Minimal	Non-combustible solid waste, bulky items and scrap metal such as glass bottles, tires, plastic packaging and broken equipment that cannot be recycled will be transported to the Baker Lake Waste Facility.	Any material that can be recycled or cannot be accepted at the Baker Lake Waste Facility will be transported to an approved recycling or disposal site.

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Quilq Energy Corporation is firmly committed to the protection and conservation of the natural environment and to ensuring the health and safety of all employees, contractors, and people in surrounding communities. Potential environmental impacts of the Baker Lake Geothermal Project are negligible and mitigatable with little impacts on the environment. A single drill site will be located at least 31 m from any waterbody. Recirculation and filtration equipment will be used to minimize the amount of water used during drilling activities. Any residual drill water will be contained in sumps at least 31 m from any waterbody. Secondary containment will be used for all fuel and chemicals and appropriate spill kits will be located at each fuel cache and drill site. The drill site will be photographed to comply with environmental due diligence. All waste materials will be recycled and/or disposed of within Baker Lake or transported south to an accredited facility. For further details please see the Spill and Fuel Management Plan, Waste Management Plan, Abandonment and Restoration Plan, and Environmental Management Plan.

### 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 11: Municipal Development

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The Project will be completed in a pre-disturbed area of the QEC Power Plant Lot 447, within the municipal boundaries of the Hamlet of Baker Lake.

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The Project will consist of the completion of a small diameter, temperature gradient hole in which geothermal properties will be studied. Should this work yield positive results, further investigations, will be conducted that might ultimately lead to the construction of a geothermal heat and power facility that would help reduce, if not eliminate, the hamlet's dependence on fossil fuels.

### Miscellaneous Project Information

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### Cumulative Effects

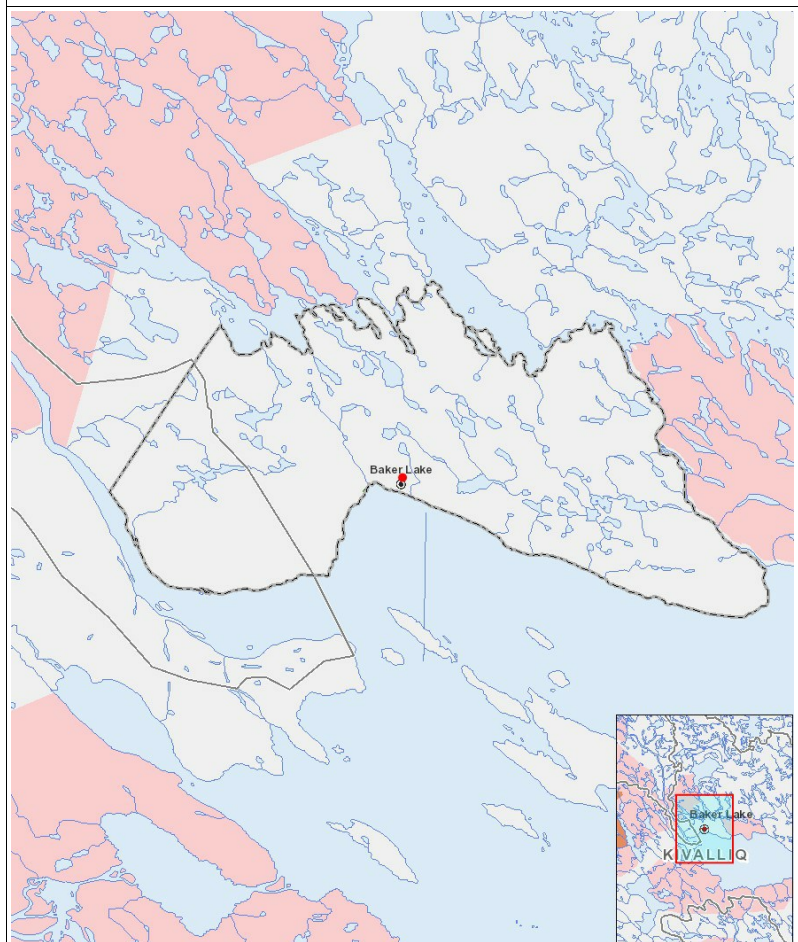
QEC will communicate and coordinate with the Hamlet of Baker Lake to ensure there are no negative cumulative effects that arise from the implementation of this project.



## Impacts

உடையவரே நமது தாய்மொழியை நமது மனதில்  
உருவாக்கித் தருவாராக வேண்டுகிறோம்.

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$$(P = \langle b \rangle \dot{a} \cdot \dot{p} \cap \dot{a} \cdot \dot{q})^C, N = \langle b \rangle \dot{a} \cdot \dot{p} \cdot \dot{c} \langle \dot{a} \cdot \dot{q} \rangle^C, M = \langle b \rangle \dot{a} \cdot \dot{p} \cdot \dot{c} \langle \dot{a} \cdot \dot{q} \rangle^C, U = \dot{q} \dot{b} \dot{p} \dot{a} \cdot \dot{q} \cdot \dot{p} \cdot \dot{c} \rangle^C$$

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## List of Project Geometries

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