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Qulliq Energy Corporation
Société d'énergie Qulliq
Qulliq Airuyaktuqtunik Ikumatjutiit

Proposed Taloyoak District Heating System Project

Land Use

Once the pipeline is installed, the trench will be backfilled and the corridor will be returned to pre-construction land use.

Anticipated Permitting Requirements

A development permit is required from the Hamlet of Taloyoak to proceed with excavation of the pipeline trenches. This will be obtained once detailed design is complete and prior to construction.

Material Use

Construction activities would require the use of a back hoe and loader to excavate and backfill the trench the pipeline is installed in or to assist with aboveground pipeline construction. QEC will hire a contractor to complete the work. No equipment is required during operations.

Fuel will be required for the equipment during construction; this will be purchased locally as required. Operation of the DHS is expected to result in an overall reduction in heating fuel consumption for all five buildings on a go forward basis.

The heat transfer fluid used in the system is a 50% propylene glycol solution (mixed with water). The solution is premixed and will be handled and stored at QEC's existing power plant site. Propylene glycol solution is not considered a hazardous material or chemical. It is anticipated that approximately 17,000 litres will be required to fill the system once constructed. Approximately 2,000 litres will be stored at the power plant to address evaporation or any unplanned events (e.g., spills or leaks).

No water is anticipated to be required for this Project.

Environmental Impacts

Potential environmental impacts resulting from the Project and the proposed mitigation that QEC will put in place is provided in Table 1.



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Appendix A

Letter of Support from Hamlet of Taloyoak



Hamlet of Taloyoak
P O Box 8
Taloyoak, Nunavut
X0B 1B0

January 29, 2020

Jamie Flaherty
Vice President
Qulliq Energy Corporation
P.O. Box 580
Iqaluit, NU
X0A 0H0

Re: Letter of support

Dear Mr. Flaherty,

Hamlet Council passed a motion to continue the support at their regular meeting held on January 28, 2020 regarding District Heating System (DHS) project executing by Qulliq Energy Corporation.

Motion moved by Councilor Solomon Iqalliyuk, second by Councilor Kovalaq Kootook to approve Council support for district Heating System (DHS) project, and SAO write up a support letter.

Motion number 20-01-12

Sincerely,

Janice Anderson
SAO