



VIA EMAIL: amaruq@qiniq.com

July 3, 2019

File No.: 144930114

Amaruq Hunters and Trappers Association

P.O. Box 629

Iqaluit, NU X0A 0H0

Attention: Manasie Mark, Office Manager

Dear Mr. Mark:

Reference: Bathymetry and Water Level Surveys at "Unnamed Lake"

City of Iqaluit (City) staff and consultants met with the Amaruq Hunters and Trappers Association (HTA) in the fall of 2018 and in early 2019 to update the HTA on ongoing work to study potential new sources of drinking water for the City to supplement water the City's current supply at Lake Geraldine. In summer and fall of 2019 (this year), the City plans to continue with studies of the "Unnamed Lake" approximately 3 kilometres north of the Road to Nowhere. These studies will help to answer whether this lake could reliably supply enough water every year to permanently add to the City's drinking water supply. Currently, very little is known about this lake: How much water flows in during spring melt? How much water is in the lake? Where does the water flow out of the lake? How much water flows out of the lake? What is the quality of the lake water?

To help to answer these questions, several studies are proposed in 2019 and 2020:

- 1) Lake water level measurements throughout the year will be collected using a level-logger – an instrument that records water pressure. A two-person field team will set out two loggers and will retrieve the loggers after a full year.
- 2) Lake outflow measurements will be collected when outflow creek(s) are flowing
- 3) A bathymetric survey will map the lake bottom using a sensor similar to a fish finder. An inflatable zodiac with motor will be used to survey the entire lake during two days in summer of 2019. The boat will be transported there using ATV or helicopter.
- 4) Water samples will be collected from the surface and from various depths to analyze for water quality

A fisheries study may be done in the future, but is not part of this work. A figure of the study location is shown in the figure below.

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The City will award contracts to complete the work by early July 2019, and work will begin in July 2019. A wildlife monitor will be retained for all field work.

The City is applying to obtain a research licence from the Nunavut Research Institute for this work. Should you have any questions or concerns about this program, please contact the City's designated contact Erica Bonhomme of Nunami Stantec Limited: 867-920-2882.

Thank you for taking the time to read this letter.

Qujannamiik,

Cameron DeLong, A-Director of Public Works and Engineering  
City of Iqaluit

Cc. Matthew Hamp, Director of Public Works and Engineering  
City of Iqaluit

Cc. Gregory Hawke, Josip Deronja (Colliers Project Leaders)  
Erica Bonhomme (Nunami Stantec)