
Nunavummi Qaujsaqtulirijikkut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 052 18R-M

ISSUED TO: Julian Aherne
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TEAM MEMBERS:

AFFILIATION: Trent University

TITLE: Impacts of Air Pollution on Terrestrial and Aquatic Ecosystem on Southern Baffin Island

OBJECTIVES OF RESEARCH:

The impact of atmospheric emissions on air quality in the Arctic is expected to increase as new and expanded economic developments trigger growth in marine traffic and resource extraction. Emissions of sulphur dioxide and nitrogen oxides can contribute to ecosystem acidification and eutrophication in regions characterized by acid sensitive geology and nutrient poor soils, such as Baffin Island. This project will utilise a critical loads approach to quantify the assimilative capacity of arctic terrestrial and aquatic ecosystems. Lake water in the Kimmirut and Iqaluit regions (~100 sites) will be sampled for chemical analysis. In addition, moss and soil samples will be collected at a sub-set of the study sites (~20 sites) to assess terrestrial ecosystem impacts.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:


DATES: August 10, 2018-September 10, 2018

LOCATION: Iqaluit, Kimmirut

Scientific Research License 02 052 18R-M expires on December 31, 2018

Issued at Iqaluit, NU on June 06, 2018

for



Mary Ellen Thomas
Science Advisor

