
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

Box 1720, Iqaluit, NU X0A 0H0 phone:(867) 979-7279 fax: (867) 979-7109 e-mail:

mosha.cote@arcticcollege.ca

SCIENTIFIC RESEARCH LICENSE

LICENSE # 01 020 19R-M

ISSUED TO: Julian Aherne
Trent University
TSE, 1600 West Bank Drive
Peterborough, Ontario
K9L 0G2 Canada

TEAM MEMBERS: T. Liang, R. Brown

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 will be sampled for chemical analysis. In addition, moss and soil samples will be collected at a sub-set of the study 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, 2019-September 10, 2019

LOCATION: Iqaluit, Kimmirut

Scientific Research License 01 020 19R-M expires on December 31, 2019

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for



Mary Ellen Thomas
Science Advisor

