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UNAVUT IMPACT REVIEW BOARD

NUNAVUMI AVATILIKIYIN KATIMAYIN

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Impacts of air pollution on terrestrial and aquatic ecosystems on Baffin Island

ᐃᑦᑲᑦᑲᑦ ᐃᑦᑲᑦᑲᑦ:	Amendment
ᐃᑦᑲᑦᑲᑦ ᐃᑦᑲᑦᑲᑦ:	ᐃᑦᑲᑦᑲᑦ
ᐃᑦᑲᑦᑲᑦ ᐃᑦᑲᑦᑲᑦ:	6/3/2017 11:46:36 AM
Period of operation:	from 2017-08-20 to 2017-09-05
ᐃᑦᑲᑦᑲᑦ ᐃᑦᑲᑦᑲᑦ:	from 2017-08-18 to 2017-09-05
ᐃᑦᑲᑦᑲᑦ ᐃᑦᑲᑦᑲᑦ:	Julian Aherne Trent University TSE, 1600 West Bank Drive Peterborough Ontario K9L 0G2 Canada ᐃᑦᑲᑦᑲᑦ: 7057481011x7887, ᐃᑦᑲᑦᑲᑦ:

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ᐃᑦᑲᑦᑲᑦ: The proposed study will collect surface water from lakes north of Kimmirut, and around Pond Inlet and Iqaluit. Approximately 50 lakes will be randomly selected for sampling by helicopter north of Kimmirut and around Pond Inlet. In addition, 10 lakes have been selected for sampling around Iqaluit, with access by foot. All study sites will be located outside of Inuit Owed Land and Territorial Parks. All lake water samples will be analysed for major cations and anions, nutrients, trace metals, and mercury to assess the potential impacts of air pollution.

ᐃᑦᑲᑦᑲᑦ: L'étude proposée recueillera des eaux de surface dans les lacs au nord de Kimmirut et autour de Pond Inlet et Iqaluit. Environ 50 lacs seront choisis au hasard pour l'échantillonnage par hélicoptère au nord de Kimmirut et autour de Pond Inlet. En outre, 10 lacs ont été sélectionnés pour l'échantillonnage autour d'Iqaluit, avec accès à pied. Tous les sites d'étude seront situés à l'extérieur des terres inuites et des parcs territoriaux inuits. Tous les échantillons d'eau du lac seront analysés pour les principaux cations et anions, nutriments, métaux traces et mercure afin d'évaluer les impacts potentiels de la pollution atmosphérique.

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Personnel

Personnel on site: 2
Days on site: 10

Total Person days: 20

Period of operation: from 2017-08-20 to 2017-08-30

Proposed term of operation: from 2017-08-18 to 2017-09-05

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Impacts

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	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
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(P = ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ, N = ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ, M = ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ, U = ᐱᓚᐱᓪᓗ ᐱᓚᐱᓪᓗ)

Project Map



