



Water Resources
Nunavut Regional Office
P.O. Box 100
Iqaluit, NU, X0A 0H0

August 14, 2017

Karén Kharatyan
A/Manager of Licencing
Nunavut Water Board
Gjoa Haven, NU, X0E 1J0

INAC reference
CIDM# 1169057

NWB reference
#1BR-CST1723

**Re: Indigenous and Northern Affairs Technical Review of Water Monitoring Plan
for the Cambridge Bay Soil & Water Treatment Facility- Kitnuna Environmental
Ltd. 1BR-CST1723**

Dear Mr. Kharatyan,

Thank you for email received on July 14, 2017, from the Nunavut Water Board concerning the above mentioned water licence application process. A memorandum is provided for the consideration of the Nunavut Water Board. Comments have been provided pursuant to the Department's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Indian Affairs and Northern Development Act*.

Please do not hesitate to contact me by telephone at 867-975-4568 or email at Lisa.Bachellier@aandc-aadnc.gc.ca for further comments or any questions.

Sincerely,

Lisa Bachellier
Water Resource Technician

c.c.: Ian Parsons, A/Manager Water Resources, Nunavut Regional Office (NRO),
Indigenous and Northern Affairs Canada (INAC)
Erik Allen, Manager of Field Operations, NRO, INAC



Technical Memorandum

Re: Indigenous and Northern Affairs Technical Review of Water Monitoring Plan for the Cambridge Bay Soil & Water Treatment Facility- Kitnuna Environmental Ltd. 1BR-CST1723

Applicant: Kitnuna Environmental Ltd.
Project: Water Monitoring Plan
Region: Kitikmeot Region

A. BACKGROUND

On July 14, 2017 the Nunavut Water Board provided notification to interested parties that Kitnuna Environmental Ltd. (Licensee) had submitted a Water Monitoring Plan for their Soil and Water Treatment Facility.

Kitnuna Environmental Ltd has already received approval for the construction of their Soil and Water Treatment Facility; this facility will be located adjacent to the Hamlet's sewage lagoon. The facility will be constructed in 2017.

The Facility will include one engineered cell divided into three sub cells; one cell for receipt, storage and treatment of petroleum hydrocarbon contaminated soil; one cell designed for storage of petroleum hydro carbon contaminated snow and water; one cell designed for storage of hazardous waste awaiting shipment. as well as one small package treatment plant to treat petroleum hydrocarbon-contaminated water.

All interested parties were asked to review the Water Licence renewal application and provide technical comments by August 14, 2017.

B. RESULTS OF REVIEW

Indigenous and Northern Affairs Canada- Water Resource Division submits the following comments to the Nunavut Water Board for consideration:



1. Groundwater and Effluent Monitoring Stations

Source:

Water Monitoring Plan- Cambridge Bay soil and water treatment facility – Dated May 2017

i) Comment:

Initial groundwater work will be completed prior to operations commencing at the Facility and the information generated will be incorporated into the future version of this Plan, and be noted as Site baseline values. Three shallow groundwater wells (CST-2 up-gradient, CST-3 down-gradient and CST-4 down-gradient) will be installed around the perimeter of the Facility. The placement of these wells will be chosen to best represent up-gradient and down-gradient conditions in the shallow groundwater and/or active layer. Installation details of each monitoring well will be included in an updated version of this Plan. Monitoring Station CST-1 will be the final discharge point from the Facility and its location will be included once determined

Recommendation:

INAC recommends that the Applicant confirm the locations of groundwater monitoring wells prior to operations with the results from the monitoring wells included in their Annual Report.

Prepared by Lisa Bachellier