



Davy Krengnektak, Foreman
Incorporated Hamlet of Tuktoyaktuk
P.O. Box 120
Tuktoyaktuk, NT
X0E 0T0

August 24, 2020

Dear Mr. Krengnektak,

RE: EMERGENCY DECANT OF SOLID WASTE DISPOSAL FACILITY LAGOON

As per email dated August 4, 2020, from the Incorporated Hamlet of Tuktoyaktuk (Hamlet) it is apparent there is a need for the Hamlet to conduct an emergency decant of the Solid Waste Disposal Facility Lagoon (the "Lagoon") due to the lagoon having less than 0.5 m freeboard. There has not been a 30 day notice prior to discharge as per Part D, Item 13 of the Water License. The purpose of this decant is to lower water levels in the Lagoon, thus preventing structural failure of the berm which may result in uncontrolled discharge.

The Hamlet collected water samples (as per SNP Part B; Item 3) on August 11, 2020. To consider this discharge, Environment and Natural Resources (ENR) reviewed the Hamlet's Water License N5L3 – 0714 (the license) and the results of the water samples taken on August 11, 2020 at Surveillance Network Program (SNP) station 0714 – 3 (Lagoon). The samples were analysed as per the License requirements.

There are no concerns as parameters are acceptable when compared to available Canadian Council of Ministers for the Environment Chapter 4 Marine Guidelines and are also below historical background levels. All parameters were below Water License discharge criteria.

In light of the above review, ENR **APPROVES** the "emergency decant" as per Part D: Item 14 of the Water License. Furthermore, this emergency decant is approved under the following conditions:

1. Provide a detailed log run time including pump rate and total daily discharge in cubic meters
2. The Hamlet must adhere to all other applicable conditions in the license. Specifically, please review **Part D: Items 16 – 22**
3. During discharge ensure that SNP, Item 3 is carried out and that **SNP 0714 – 3 is sampled at least one time during discharge. When discharge is**



complete, ensure that the sample results are forwarded to this office for review.

- 4. The Hamlet is to discharge from the lagoon as long as needed to achieve the freeboard limit of .5 metres as required by the Water License in Part D; Conditions Applying to Waste Disposal, Item 24**

Please contact me if you have any questions or concerns or if you require additional information.

Sincerely,

Lloyd Gruben
Water Resources Officer
Environment and Natural Resources
P.O. Box 2749
Inuvik, NT X0E 0T0
Ph: (867)678-6676 (office)
Cell: (867)678-0623 (cell)

Cc: Lila Voudrach, Manager of Wildlife and Environment
Mardy Semmler, Executive Director, Inuvialuit Water Board



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
200558

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Solid Waste Site

Taiga Sample ID: 002

Client Project:

Sample Type: Water

Received Date: 11-Aug-20

Sampling Date: 11-Aug-20

Sampling Time: 7:30

Location: Tuktoyaktuk, NT

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	3	2	mg/L	12-Aug-20	SM5210:B	
<u>Inorganics - Physicals</u>						
pH	8.25		pH units	12-Aug-20	SM4500-H:B	
Solids, Total Suspended	10	3	mg/L	17-Aug-20	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	11-Aug-20	SM9222:D	
<u>Subcontracted Organics</u>						
Polychlorinated Biphenyls	< 0.00100	0.0010	mg/L	20-Aug-20	EPA3510	
<u>Trace Metals, Total</u>						
Cadmium	< 0.1	0.1	µg/L	17-Aug-20	EPA200.8	
Chromium	0.3	0.1	µg/L	17-Aug-20	EPA200.8	
Cobalt	0.2	0.1	µg/L	17-Aug-20	EPA200.8	
Copper	1.7	0.2	µg/L	17-Aug-20	EPA200.8	
Iron	490	5	µg/L	17-Aug-20	EPA200.8	
Lead	0.5	0.1	µg/L	17-Aug-20	EPA200.8	
Manganese	17.7	0.1	µg/L	17-Aug-20	EPA200.8	

Report Date: Saturday, August 22, 2020

Print Date: Saturday, August 22, 2020



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Mercury	< 0.01	0.01	µg/L	17-Aug-20	EPA200.8
Nickel	2.4	0.1	µg/L	17-Aug-20	EPA200.8
Zinc	17.6	5	µg/L	17-Aug-20	EPA200.8

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