

Environment and Natural Resources
Government of the Northwest Territories
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Inuvik NT X0E 0T0

Telephone: (867) 678-6698
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January 29, 2016

Hamlet of Aklavik
PO Box 88
Aklavik NT X0E 0A0

Attn: Fred Behrens, Senior Administrative Officer

**RE: Municipal Water Licence N3L3-0570
CLASS B – MUNICIPAL WASTE DISPOSAL**

Dear Mr. Behrens,

An inspection was conducted of the Municipal Sewage Disposal Facilities on January 27, 2016. Enclosed is a copy of the Municipal Water Licence Inspection Report.

There were a number of violations identified as depicted on page four of the Inspection Report. Most of the violations relate to spilled sewage and auto transmission fluid and can be dealt with promptly. Please review and address the concerns throughout the Inspection Report.

Please note that it is the Hamlet's responsibility to ensure compliance with all of the terms and conditions of its Water Licence. The Department of Environment and Natural Resources is available to assist you in achieving this goal.

A copy of this report will be sent to the Inuvialuit Water Board for their review and public records. If you have any questions/concerns regarding the enclosed, please do not hesitate to me at (867) 678-6676.

Sincerely,



Philippe Thibert-Leduc
Water Resource Officer
Inuvik Region

Cc: Stephen Charlie – Superintendent – Inuvik Region – ENR

Enclosure: Municipal Waste Disposal Inspection Report (4 pages)

MUNICIPAL WASTE DISPOSAL INSPECTION REPORT

LICENCE #:	N3L3-0570	EXPIRY DATE:	November 30, 2019
LICENCEE:	Hamlet of Aklavik	PREVIOUS INSPECTION:	August 26, 2011
COMPANY REP:	Fred Behrens, SAO	INSPECTION DATE:	January 27, 2016

WATER SUPPLY

Source:	Peel Channel – Mackenzie River	Quantity Used:	N/A
Owner/Operator:	Hamlet of Aklavik	Meter Reading:	N/I

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Intake Facilities	N/I	Storage Structures	N/I	Treatment Systems	N/I	Recycling	N/A
Flow Meas. Device	N/I	Conveyance Lines	N/I	Pumping Stations	N/I	Chem. Storage	A
Water Delivery Truck	N/I					Modifications	N/I

- Not inspected at this time.

WASTE DISPOSAL – SEWAGE

Disposal Method		Primary Treatment					
Mechanical	N	Camp Sump	N	Natural Water Body	Y	Wetland Treatment	Y
Continuous Discharge	Y	Intermittent Discharge	N	Seasonal Discharge	N	Land Spread	N
Accelerated Biological	N	Other	N/A				

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**
Y - Yes **N- No**

Discharge Quality	N/I	Decent Process & Structures	N/A	Discharge Measurement Device	N/I
Freeboard	N/I	Sludge Disposal Method	N/A		
Periods Of Discharge	Continuous			SNP Samples Collected	No
Effluent Discharge Rates	Natural outflow into the wetland and occasional controlled decants.				

Spill and Sewage Truck Comments:

- There is evidence of sewage being discharged outside of the sewage lagoon, near the discharge pad at the Sewage Disposal Facilities (SDF) (see Figure 1). Operator must ensure that that all sewage is discharged into the sewage lagoon as authorized under the Water Licence. Discharging excess or build-up of sewage directly onto the ground is considered an unauthorized discharge of hazardous wastes and cannot continue. If excess sewage cannot be discharged in the chute then it must be contained in a sealed container until it can be disposed properly.
- There is evidence of what appears to be auto transmission fluid (ATF) around the sewage discharge (see Figure 2). Additionally, a number of empty ATF bottles were observed by the discharge chutes (see Figure 3). The sewage truck should not be spilling ATF and should be inspected as soon as possible. The operator is aware that this is ongoing and has agreed to get it checked for general maintenance and possibly repairs.
- All spilled ATF will need to be cleaned up as soon as possible and stored in a sealed container until it can be sent for ultimate disposal at a registered receiver of hazardous wastes. Operator agreed to use drip trays/containment when releasing excess sewage and/or ATF generated by the sewage truck and to clean up previous spills.

MUNICIPAL WASTE DISPOSAL INSPECTION REPORT

Sewage Discharge Chutes Comments:

- There is evidence of erosion at the sewage discharge chute that is currently in use. The pad is frozen and covered in snow but there are likely stability issues with regards to the chute and the discharge pad due to sewage pooling and damaging the structure overtime (see Figures 4 and 5).
- Sewage is being spilled underneath and around the discharge pad. Operator must ensure that all sewage is discharged in the chute and that any spilled sewage is being contained. Recommend adding a catchment basin which can be emptied in the chute when at capacity or on a daily basis during winter season.
- Area will need to be closely monitored during the spring and summer to ensure that any sewage spilled during the off-loading procedure will flow into the sewage lagoon or into a catchment basin (i.e. good drainage).
- Recommend adding or upgrading tire stops for safety reasons and to protect the discharge chute from further damage.

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Landfill					
Open Dump	N	Landfill	Y	Burn & Landfill	N/I	Underground	N
Offsite Removal	N	Other	N/A				
Owner / Operator	Hamlet of Aklavik						

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**
Y - Yes **N - No**

Runoff Diversion	N/A	SNP Samples Collected	No
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- Not inspected at this time.

FUEL STORAGE

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Owner:	Hamlet of Aklavik	Operator:	Hamlet of Aklavik	Condition of tanks:	N/I
Berms & Liners	N/I	Water within Berm:	N/I	Evidence of Leaks:	N/I
Drainage Pipes	N/I	Pump Station and Catchment Berm	N/I	Runoff Diversion	N/A
Pipeline Condition	N/I				

- Not inspected at this time.

SURVEILLANCE NETWORK PROGRAM

Samples Collected Hamlet	N/I		
Samples Collected ENR	None		
Signs Posted: SNP	N/I	Warning	N/I

- Note inspected at this time.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

C&R Plan	N/A	Records & Reporting	U ¹	Final Report	N/A
Geotechnical Inspection	N/A	Posting, Signage	N/I	Contingency Plan	A
Restorations Activities	N/A	Spills	U ²	O&M Plan	U ³
Maintenance	N/I	Modifications	N/A	Annual Report	N/A

MUNICIPAL WASTE DISPOSAL INSPECTION REPORT

General Comments:

- This inspection was conducted of the Sewage Disposal Facilities only as the Water Resource Officer and the Environmental Protection Officer were following up on a report of ATF being spilled at the sewage lagoon and within the Hamlet. A full inspection of the Municipal Water Supply and Waste Disposal Facilities will follow in the spring or summer of this year.
- It is the Licensee's responsibility to ensure that the contractor involved with the SDF is meeting the terms and conditions of the Municipal Water Licence.
- Ensure that the contractor is knowledgeable on the Spill Contingency Plan, the Operation and Maintenance Plan for Solid Waste and Lagoon, and any other relevant supporting documents under the Water Licence.
- ^{1,2}Refer to the current Spill Contingency Plan for spill reporting, prevention and remediation. Ensure that all spills are reported to the Spill Line as required under the Water Licence.
- Refer to the current Operation and Maintenance Plan for Solid Waste and Lagoon's maintenance procedure for sewage trucks and truck pad.

Missing Deliverables:

- ³The Licensee has not submitted to the Board an updated **Operations and Maintenance Plan for the Sewage Disposal Facilities and Solid Waste Disposal Facilities.**

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Part B: General Conditions, Item 7,

"The Licensee shall immediately report to the 24 Hour Spill Report Line (867-920-8130) any spills of Waste which are reported to, or observed by, the Licensee within the municipal boundaries, or in the areas of the Waste Disposal Facilities."

Part D: Conditions Applying to Waste Disposal, Item 1,

"The Licensee shall direct all Pump-out Sewage to the Sewage Disposal Facilities or as otherwise approved by the Board."

Part D: Conditions Applying to Waste Disposal, Item 3,

"The Licensee shall ensure that the Sewage Disposal Facilities are maintained and operated in such a manner as to prevent structural failure."

Part D: Conditions Applying to Waste Disposal, Item 4,

"The Licensee shall maintain the Sewage Disposal Facilities to the satisfaction of an Inspector."

Part F: Conditions Applying to Operation and Maintenance, Item 1,

"The Licensee shall, within six (6) months of the issuance of this Licence, submit to the Board for approval an Operations and Maintenance Plan for the Sewage Disposal Facilities and Solid Waste Disposal Facilities that includes, but is not limited to, information and plans related to the following[...]"

Inspector's Signature: _____



MUNICIPAL WASTE DISPOSAL INSPECTION REPORT

Inspection Images:

Figure 1

Accumulation of spilled sewage near the SDF.



Figure 2

Spilled ATF near the SDF.



Figure 3

Empty bottles of ATF at the SDF.



Figure 4

Accumulation of spilled sewage underneath and around the discharge chute that is currently in use.



Figure 5

Accumulation of sewage underneath the discharge chute will lead to structural issues overtime. Catchment basin is recommended. Discharge pad needs to be remediated to allow for good drainage and prevent any pooling of sewage.

