



Telephone: 867-678-6676
Fax: 867-678-6699

Town of Inuvik
P.O. Box 1160
Inuvik, NT X0E 0T0

June 12, 2019

Attention: Grant Hood, Senior Administrative Officer

File Number G17L3 - 001
Type of Operation CLASS A - MUNICIPAL
Location Inuvik, NT

Attention: Grant Hood, Senior Administrative Officer,

On May 16, 2019, I completed an inspection at the Town of Inuvik's landfill, sewage lagoon and water treatment plant. I have attached a copy of the Municipal Water License Inspection Report for your review

During my inspection, I noted two non compliance issues

- Section 5 of Part B of the Water License requires the Town of Inuvik to submit their annual water license report no later than March 31
- Section 2 of Part H of the Water License required the Town of Inuvik to submit an updated Spill Contingency Plan no later than January 2, 2019

I would like to commend the Town of Inuvik for meeting the following deadlines:

- Notifying the Gwich'in Land and Water Board and myself 30 days prior to proceeding with the annual sludge removal
- Submitting the Solid Waste Site Fencing Plan, prior to July 1, 2019
- Submitting the Operations + Maintenance plan for Water Treatment Facility
- Submit updated Operations + Maintenance plan for the Solid Waste Disposal Facility

Please contact me at the number below if you have any questions or concerns or if you require additional information.



«INSP_TYPE» WATER USE INSPECTION REPORT

Sincerely,

Lloyd Gruben
Water Resource Officer
Environment and Natural Resources
P.O. Box 2749
Inuvik Region
Ph: 867 - 678 - 6676

Cc:

Lila Voudrach, Manager, Wildlife and Environment
Leonard Debastien – Executive Director, Gwich'in Land and Water Board
AlecSandra Macdonald – Regulatory Specialist, Gwich'in Land and Water Board
Mayor and Town Council – Town of Inuvik

Date:	June 12, 2019	Licence #:	G17L3-001	Page No:	2
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«INSP_TYPE» WATER USE INSPECTION REPORT

LICENCE #:	G1713 - 001	EXPIRY DATE:	June 30, 2027
LICENCEE:	Town of Inuvik	PREVIOUS INSPECTION:	Sept, 2018
COMPANY REP:	Grant Hood	INSPECTION DATE:	May 16, 2019

WATER SUPPLY

Source:	Mackenzie River	Quantity Used:	N/I
Owner/Operator:	Town of Inuvik	Meter Reading:	N/I

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

Intake Facilities	A	Storage Structures	A	Treatment Systems	A	Recycling	A
Flow Meas. Device	A	Conveyance Lines	A	Pumping Stations	A	Chem. Storage	A
						Modifications	A

Water Supply Comments:

The Water Supply pump station in good, clean condition.

Water Treatment Station in good, clean condition

Good record keeping, up to date

All chemicals used for water treatment under lock and key, also noted that acid no longer in use
The Town of Inuvik has a crew of four (4) employees who are all fully trained Water Treatment Operators

Water Treatment Station is located in a gated area and only staff has access to the Water Treatment Station

WASTE DISPOSAL – WELL WASTE

Disposal Method	N/A								
Off-Site Removal	N	Drilling Sump	N	Downhole Injection	N	Treat and Landspread	N	Other	N/A

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

Sump Liners	N/A	Sump Treatment	N/A	Freeboard	N/A
Erosion	N/A	Construction	N/A		
SNP Samples Collected	N/A				



«INSP_TYPE» WATER USE INSPECTION REPORT

Well Waste Comments:

WASTE DISPOSAL - SEWAGE

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

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

Discharge Quality	A	Decant Process & Structures	A	Discharge Measurement Device	A
Freeboard	A	Sludge Disposal Method	A		
Periods Of Discharge	Continuous			SNP Samples Collected	No
Effluent Discharge Rates	Natural outflow into wetland				

Sewage Comments:

Last year of upgrades
Greater than 1m required freeboard
Good signage at site
New sewage pumpout station for vacuum trucks
Staff take SNP samples during water flow season (summer)
Lot of fencing around the area
Sludge will be removed and put into another cell that is lined. All sludge will be removed and all water will be pumped back into the cells

WASTE DISPOSAL - TAILINGS

Disposal Method	N/A					
Tailings Pond	N	Natural Lake	N	Underground	N	Other

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

Conveyance Lines	N/A	Runoff Diversion	N/A	Dams, Dykes	N/A
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«INSP_TYPE» WATER USE INSPECTION REPORT

Freeboard	N/A	Seepages	N/A	Dyke Inspection	N/A
Erosion	N/A	Pond Treatment	N/A	Construction	N/A
Periods Of Discharge				SNP Samples Collected	N/A

Tailings Comments:

WASTE DISPOSAL – MINING – OTHER

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

Ore & Waste Rock Stockpiles	N/A	Chemical Storage	N/A
Ground Water Discharge	N/A	Mine Water Discharge	N/A

Mining-Other Comments:

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Landfill					
Open Dump	N	Landfill	N	Burn & Landfill	N	Underground	N
Offsite Removal	N	Other					
Owner / Operator	Town of Inuvik/ Harder Enterprises						

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

Runoff Diversion	N/A	SNP Samples Collected	No
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Solid Waste Comments:

Good Signage at landfill
New Paint and Battery Depot
Lot of Segregation
New area for appliances will be established. The new areas will be for stoves, washing machines, dryers, fridges and freezers
Capping done when required
Road to dumping piles clearly marked by empty 45 gal drums

FUEL STORAGE



«INSP_TYPE» WATER USE INSPECTION REPORT

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

Owner:	Town of Inuvil	Operator:	Town of Inuvik	Condition of tanks:	A
Berms & Liners	A	Water within Berm:	No	Evidence of Leaks:	No

Drainage Pipes	A	Pump Station and Catchment Berm	A	Runoff Diversion	A
Pipeline Condition	A				

Fuel Storage Comments:

Fuel tanks at Water pump station and Water Treatment Plant Double Walled
Tanks are bermed
Fuel tanks located on solid foundation
No stress on pipes
No signs of spillage

DAM – STRUCTURAL CONDITION OF DAM

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

Required Freeboard	N/A									
Crest	Cracking	N / A	Subsidence	N / A	Heaving	N / A	Wave Erosion	N / A	Brushing Required	N / A
Upstream Face	Cracking	N / A	Surface Erosion	N / A	Gullyng	N / A	Wave Erosion	N / A	Brushing Required	N / A
Downstream Face	Cracking	N / A	Surface Erosion	N / A	Gullyng	N / A	Wave Erosion	N / A	Brushing Required	N / A

Structural Condition Of Dam Comments:

DAM – SPILLWAYS and DISCHARGE STRUCTURES

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

Intake Structures	N/A	Discharge Structures	N/A
Seepage	N/A	Erosion	N/A



«INSP_TYPE» WATER USE INSPECTION REPORT

Downstream Discharge	N/A	Stage Discharge Curves	N/A
Forebay Level	N/A	Tail Race Level	N/A
Flow rate (Power House)			
Flow rate (Spillway)			
Power Production			
Forebay Max Level			
Forebay Min Level			

Spillways and Discharge Structures Comments:

SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee	No
Samples Collected ENR	No

Signs Posted: SNP	Yes	Warning	No
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Surveillance Network Program Comments:

SNP samples will be taken during water flow season (summer)

GENERAL CONDITIONS/REPORTS/PLANS

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

C &R Plan		Records & Reporting		Final Report
Geotechnical Inspection		Posting, Signage		Contingency Plan
Restorations Activities		Spills		O&M Plan
Maintenance		Modifications		Annual Report

General Condition Comments:

Weather: +8, Sunny, E 20 km/hr winds. Thirty (30) Day weather was sunny, warm, average temp – 5
The Town of Inuvik sent the landfill operator (contractor) and employee to a Solid Waste Site Course held in Norman Wells

ADDITIONAL COMMENTS/REMARKS

Solid Waste Site operator will be required to inspect all garbage entering landfill
Solid Waste Site operator will be required if items disposed in proper areas, ie: appliances, batteries, paint
Is weigh scale at landfill being utilized
Instruct landfill operator and employees inspect items entering to be sure dropped off at proper areas



«INSP_TYPE» WATER USE INSPECTION REPORT

Commend Rick Campbell and staff for assembling kit of sample jars for SNP sampling

MATTERS FOR FOLLOW UP

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Part H of Operations and Maintenance states that an "Updated Spill Contingency Plan to be submitted to the GLWB no later than Jan. 1, 2019" but was submitted until April 2019

Part B of the Operations and Maintenance states " to submit Annual Water License Report by March 31 of each year" but was submitted late

In the future, would like to see the Annual Water License submitted to the GLWB prior to March 31 deadline

Inspector's Signature: