



Hamlet of Paulatuk  
1 Main Road  
Paulatuk, NT X0E 1N0

November 4, 2019

**Attention: Ray Ruben Sr., Mayor of Paulatuk**

**File Number** N7L3-1691  
**Type of Operation** Type B – MUNICIPAL Water License  
**Location** Paulatuk

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

During my inspection, I noted the following non – compliance issues:

- Section 1 of Part B of the Water License requires the Hamlet of Paulatuk to submit their annual report no later than April 30 of each year
- Leaving Water Treatment Plant unlocked when no water treatment operators available with toxic chemicals not under lock and key
- No segregation at landfill
- No signage at landfill
- No signage for sewage lagoon
- Water Treatment Plant sign weathered so bad, you can't make out what the sign state

I would like to commend the Hamlet of Paulatuk for the following:

- SNP samples taken and analyzed before my inspection

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

Sincerely,

Lloyd Gruben

Water Resource Officer  
Environment and Natural Resources  
P. O. Box 2749  
Inuvik, NT X0E 0T0  
Ph: 867 - 678 - 6676

**«INSP\_TYPE» WATER USE INSPECTION REPORT**

Cc:

Lila Voudrach: Manager, Wildlife and Environment

Mardy Semmler: Executive Director, Inuvialuit Water Board

Bijaya Adhikara: Science and Regulatory Co - ordinator

Leigh Anne Williams – Jones: Regulatory Officer

John Holland: Senior Administrative Officer, Hamlet of Paulatuk

Date:	August 7, 2019	Licence #:	N7L3 - 1619	Page No:	2
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**«INSP\_TYPE» WATER USE INSPECTION REPORT**

<b>LICENCE #:</b>	<b>N7L3 - 1619</b>	<b>EXPIRY DATE:</b>	<b>Nov 20, 2020</b>
<b>LICENCEE:</b>	<b>Hamlet of Paulatuk</b>	<b>PREVIOUS INSPECTION:</b>	<b>August 11, 2015</b>
<b>COMPANY REP:</b>	<b>Mayor Ray Ruben Sr</b>	<b>INSPECTION DATE:</b>	<b>July 16, 2019</b>

**WATER SUPPLY**

Source:	New Water Lake	Quantity Used:	Approx 12,500m cubed
Owner/Operator:	Hamlet of Paulatuk	Meter Reading:	N/I

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

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

**Water Supply Comments:**

- Water Lake was clean looking with no floating debris and no obvious signs of human activity surrounding the lake other than the occasional ATV and snowmobile. Hamlet staff stated they are still educating the public, the Water Supply Facilities (WSF) are off limits
- Sign at the gate weathered so bad, that the sign cannot be read
- Water Treatment Plant and Water Supply Facilities are gated and locked during non-working hours
- WTP was generally clean and tidy at the time of inspection
- The Water Operator is maintaining daily logs and is meeting all record – keeping requirements. Water analysis and routine checks are being conducted
- Two trained Water Treatment Operators which is good if one operator is not around
- No erosion by water truck refill station
- Fuel tank on good base, no stress on pipe entering building
- No Spill Kit at WTP
- Backup generator is rarely used. Recommended use periodically to ensure that it is functional
- Check generator and backup generator checked daily for leaks
- Water delivery truck seems to be new

**WASTE DISPOSAL – WELL WASTE**

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

**«INSP\_TYPE» WATER USE INSPECTION REPORT**

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				

**Well Waste Comments:**

**WASTE DISPOSAL – SEWAGE**

Disposal Method		Primary 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	N/A		
Periods Of Discharge	Appears to discharge continuously, water levels remain high			SNP Samples Collected	No
Effluent Discharge Rates	Natural outflow into the wetland				

**Sewage Comments:**

- SNP samples were collected prior to my inspection
- Regular SNP samples being conducted by Hamlet staff
- Dumping chute needs work, pallets holding chute up, Chute ready to drop if accidentally hit by sewage truck backing up
- No smell from lagoon
- No signage. I did not know I was standing by the sewage truck chute as there was no signage
- Public waste in lagoon
- Good freeboard
- Access road in good shape
- Sewage truck pad in such poor condition, unsafe for workers

**WASTE DISPOSAL - TAILINGS**

Disposal Method	
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**«INSP\_TYPE» WATER USE INSPECTION REPORT**

Tailings Pond	N	Natural Lake	N	Underground	N	Other	
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**Indicate:**    **A - Acceptable**        **U - Unacceptable**        **N/A - Not Applicable**        **N/I - Not Inspected**

Conveyance Lines		Runoff Diversion		Dams, Dykes	
Freeboard		Seepages		Dyke Inspection	
Erosion		Pond Treatment		Construction	
Periods Of Discharge				SNP Samples Collected	

**Tailings Comments:**

**WASTE DISPOSAL – MINING – OTHER**

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

Ore & Waste Rock Stockpiles		Chemical Storage	
Ground Water Discharge		Mine Water Discharge	

**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	Hamlet of Paulatuk						

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

Runoff Diversion	A	SNP Samples Collected	A
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**Solid Waste Comments:**

- Hamlet staff collected SNP samples prior to my inspection
- No Segregation of debris. Where do they drop off appliances, dead batteries, old tires, regular household garbage, empty propane bottles
- No signage of where to dump tires, appliances, batteries, paint, steel
- Foreman stated tried to do segregation but public still dumping all over

**«INSP\_TYPE» WATER USE INSPECTION REPORT**

- Empty propane bottles dumped with regular waste
- All waste and used oil brought to garage and poured into tote
- Lot of windblown material
- Contractors dumping all over, no control of what is brought out
- Liquids from vehicles, atv's and snowmobiles not drained

**FUEL STORAGE**

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

Owner:	Hamlet of Paulatuk	Operator:	Hamlet of Paulatuk	Condition of tanks:	A
Berms & Liners	A	Water within Berm:	N	Evidence of Leaks:	N

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

**Fuel Storage Comments:**

- Tanks in good order, no leaks
- No stress on pipes
- Fuel tanks bermed and lined
- Fuel tanks on good, stable pad to prevent shifting

**DAM - STRUCTURAL CONDITION OF DAM**

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

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

**Structural Condition of Dam Comments:**

**DAM - SPILLWAYS and DISCHARGE STRUCTURES**

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

**«INSP\_TYPE» WATER USE INSPECTION REPORT**

Intake Structures		Discharge Structures	
Seepage		Erosion	
Downstream Discharge		Stage Discharge Curves	
Forebay Level		Tail Race Level	
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 Licensee	Yes
Samples Collected ENR	No

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

- Spring melt SNP samples taken by Hamlet of Paulatuk prior to me arriving for inspection

**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: +20, clear, sunny, light winds

**ADDITIONAL COMMENTS/REMARKS**

**MATTERS FOR FOLLOW UP**

«INSP\_TYPE» WATER USE INSPECTION REPORT

- Place spill kit at WTP
- Sewage dumping station and chutes require lot of work to prevent chute from being knocked off pallet padding, foundation
- WTP to be locked at all times when no one around as chemicals located in WTP building
- Landfill requires lot of cleanup, segregation and signage

**NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE**

- Part B, Section 1, of General Conditions states “ The Licensee shall file an Annual Report with the Inuvialuit Water Board not later than April 30 of each year
- The 2018 Annual Report was submitted to the IWB on May 23, 2019. On May 22, 2019, the IWB sent a letter as an annual report reminder
- On the dates July 3 and 4, 2019, the IWB sent a letter for additional information request regarding the 2018 Annual Report
- In the future, would like to see the annual report submitted to the IWB prior to the April 30 deadline

Inspector's Signature:



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«INSP\_TYPE» WATER USE INSPECTION REPORT

INSPECTION IMAGES



Figure 1 No Segregation

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Figure 2 No Segregation



Figure 3 Batteries disposed on ground, not on pallets. Battery acid leaked onto the ground



### «INSP\_TYPE» WATER USE INSPECTION REPORT



Figure 4 No Segregation, appliances dumped with other trash



Figure 5 Unsafe Sewage Truck Chute, Poor Foundation



## «INSP\_TYPE» WATER USE INSPECTION REPORT

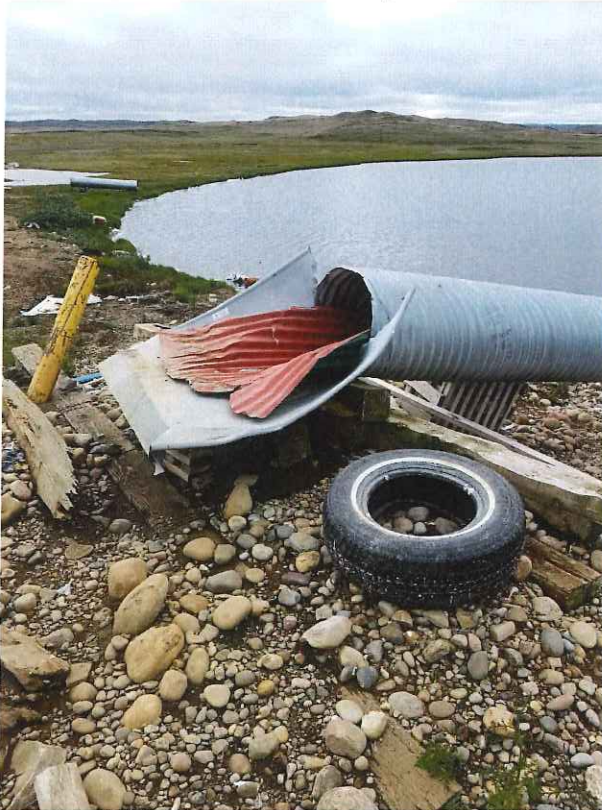


Figure 6 Unsafe sewage dump chute