

Hamlet of Aklavik Box 88, Aklavik, NT X0E 0A0

Ph: 867-978-2351 Fax: 867-978-2434

Bijaya Adhikari Inuvialuit Water Board PO Box 2531 Inuvik, NT XOE 0T0

Nov. 26, 2018

Dear Mr. Adhikari;

Re: N3L3-0570 Hamlet of Aklavik 2017 Annual Report.

Firstly, I must apologize for taking so long to reply to your letter. I hope the following will be able address the items listed.

- 1. Part B item 1e: unfortunately, we have not provided sampling for the 570-3 site.
- 2. Part B, item 1g, during the 2017-2018 year staff did not do training.
- 3. Accompanying this letter is all info from the EHO.
- 4. Also included
- 5. In August of 2018 we covered the solid waste site with river silt as well as compacted the material and have segregated waste.

Thank you for your patience.

Yours Truly Ledberton

Fred Behrens SAO Aklavik



«INSP_TYPE» WATER USE INSPECTION REPORT

WASTE DISPOSAL - SEWAGE

Disposal Method		Primary Treatment						
Mechanical	N	Camp Sump	N	Natural Water Body	Y	Wetland Treatment	Y	
Continuous Discharge	Υ	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

Discharge Quality	N/I	Decant Process & Structures	N/A	Discharge Measurement Device	N/I
Freeboard	N/I	Sludge Disposal Method	N/A		
Periods Of Discharge	Contin	uous		SNP Samples Collected	Y
Effluent Discharge Rates	Natura	l outflow into the wetland and	d occasio	onal decants	1

Sewage Comments:

There was evidence of sewage being discharged outside of the sewage lagoon, near the discharge pad of the Sewage Disposal Facilities (SDF). Operator must ensure that all sewage is discharged into the sewage lagoon as authorized under the Water Licence. During inspection, sewage was noticed under the sewage discharge chute. Under further inspection, hole was noticed in the discharge chute causing sewage leakage during discharge. Discharging excess or buildup 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 discharged properly

There is evidence of erosion at the sewage disposal chute currently in use. The Chute has a hole causing pooling of sewage below the chute and damaging the pad.

Sewage is being spilled around and beneath the sewage chute. Operator must ensure that all sewage is discharged in the chute and 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.

Area will need to be monitored during the spring and summer that any spilled during the offload will drain into the lagoon or into batchment basin.

Recommend stabilizing sewage disposal site for safety reasons as pad is sinking and potholes

Empty engine oil containers noticed by the Sewagse Disposal Site

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«INSP_TYPE» WATER USE INSPECTION REPORT

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	Dams, Dykes	N
Freeboard	А	Seepages	N	Dyke Inspection	N
Erosion	N	Pond Treatment	N/I	Construction	N
Periods Of Discharge				SNP Samples Callected	ENR

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 M	ethod						
Open Dump	N	Landfill	Υ	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

Runoff Diversion	N/A	SNP Samples Collected	No	

Solid Waste Comments:

Date:	Licence #:	Page No:	3	



During inspection, five gallon pail of paint was noticed spilled over and all around

Open five gallon pails of used engine oil filled to the brim and leaking all over. Sheen of oil noticed all over pools of water

Batteries disposed of all over the solid waste site, not segregated

Empty propane bottles disposed all over, no segregation

Appliances dumped all over, not dumped in appropriate place where signage notes appliances

No fencing, lot of wind blown debris all over. Blown into creek and area around the solid waste site

FUEL STORAGE

Indicate: A - Acceptable	
Owner:	
Berms & Liners	
Liners Drainage Pipes	

Fuel Storage Comments:

Pipeline

Condition

Inspected all fuel storage areas. All Hamlet buildings have new double walled tanks in place with good padding. No stress on pipes.

DAM - STRUCTURAL CONDITION OF DAM

N/A

Dam							
Indicate:	A - Acceptable	U - Unacce	ptable N/A - N	N/A - Not Applicable N/I - Not Inspected			
Required Freeboard							
Crest	Cracking	Subsidence	Heaving	Wave Erosion	Brushing		
Upstream Face	Cracking	Surface Erosion	Gullying	Wave	Required Brushing		
Downstrea m Face	Cracking	Surface Erosion	Gullying	Wave Erosion	Required Brushing Required		

tural Condition Of Dam Comments:

Date:				
Date.	Licence #:			_
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N/A - Not Applicable N/I - Not Inspected



Indicate:

«INSP_TYPE» WATER USE INSPECTION REPORT

DAM - SPILLWAYS and DISCHARGE STRUCTURES

A - Acceptable

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		

U - Unacceptable

Spillways and Discharge Structures Comments:

SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee				
Samples Collected ENR	Samples taken	Samples taken as per water licence		
	ouriples taker	as per water needle		
Signs Posted: SNP	None	Warning		

Surveillance Network Program Comments:

Had to find area of where sdamples to be taken

GENERAL CONDITIONS/REPORTS/PLANS

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

During inspection of Hamlet shop, five gallon pails overflowing with oil and water

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«INSP_TYPE» WATER USE INSPECTION REPORT

ADDITIONAL COMMENTS/REMARKS

MATTERS FOR FOLLOW UP

Sewage Disposal Site needs repairs in the chute as holes were noticed causing leakage during offload

Sewage disposal pad cracking and potholes need repairs done.

Solid Waste Site needs more signage and segregation.

Fencing needed to catch all wind blown debris

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Annual reporting needs to be in by April 30 of every year

Inspector's Signature:

Date:	L. L.	Licence #:	Page No:	6



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740 Taiga Batch No.: 170823

- CERTIFICATE OF ANALYSIS -

lient Sample ID: AK Sewage Lagoon

Taiga Sample ID: 001

Client Project:

Sample Type: Water Received Date: 28-Aug-17 Sampling Date: 24-Aug-17

Sampling Time: Location:

Report Status: Final

est Parameter	Res	ult	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
organics - Nutrients							
ochemical Oxygen Demand			2	mg/L		SM5210:B	105
organics - Physicals				01 -		5145210.5	350
lids, Total Suspended	<	3	3	mg/L	09-Sep-17	SM2540:D	
icrobiology					mr sep 17	5N12540.15	
oliforms, Fecal			1	CFU/100mL		SM9222:D	105
ganics				/ 1001112		SIV19222.D	100
exane Extractable Material			2.0	mg/L		EPA1664A	16

portDate: Monday, September 11, 2017 nt Date: *Tuesday, September 12, 2017*



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

Taiga Batch No.: 170823

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Water Intake

Taiga Sample ID: 002

- DATA QUALIFERS -

Data Qualifier Descriptions:

105 Samples received past hold time; analysis not possible.

16 Test requested but no sample bottle received

* Taiga analytical methods are based on the following standard analytical methods SM - Standard Methods for the Examination of Water and Wastewater EPA - United States Environmental Protection Agency

ReportDate: Monday, September 11, 2017
Print Date: Tuesday, September 12, 2017



Environmental Health Inspection Report

Name of	acliffy or Operation Solid Waste Disposal Fite Portuge	dims) Yrylyi
Malling A		
Physical /	AVIAVIU NT	
Type of In		
Under auf observation	hority of the Public Health Act and/or Tobacco Control Act, an inspection of the above listed facility/operation was conducted and one and/or Orders are made. Required Correction Dates are listed.	the following
Item Number	Observations and Corrective Actions	Correction Date (if applicable)
*	Suite unere Jarge wetal wastes are being	
	Stored is getting close to capacity.	
	1 was not had all reagal in a f	<u> 161. 25 25</u> Kiri 133 Alban 134
*	Improvement heeded regard in go	
	- Segregation of waste, including segrega	1,101
-		
	of Nazardous wastes.	
	will distass with Hamlet its plans for	
	Chart-torn and long-term hungginent	
, , ,	of wister	
	acting SAO Roxanne John	
	Klowit 10 1/21 with 19 1/11 (11)	er i de la de La della de la della de la della
	Lotte Ave in the absence of triblet	
	A CHY THE TOTAL OF	
	toteman and SAO.	10 m 2
	alth Officer's Name (print) August Health Officer's Signature Date (c	6 /4/11 Vaniy)
Owner/Or	erator (please print)	
X	그는 없는 것이 그렇게 끊고 맛있었습니까? [10] ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ~	14:14 vinys
	Yellowknife Inuvik 4840 Hay River Ph. (867) 669-8979 • Ph. (867) 777-7250 / 777-7220 • Ph. (867) 874-7261 Fax: (867) 669-7517 Fax: (867) 777-3285 4742 Fax: (867) 874-7211	Page
IWT1049/04		Eilo Po-
		File Cop



ENVIRONMENTAL HEALTH INSPECTION REPORT CONT'D

Sewage Lagoop P.O. Box 88)
P.O. BOX 88	
AKlavik, NT	XDE DAO
he: Inspection under the GNWI	(general Sinitation Regulation
- 2 mf looping thites me cent.	OH I ONE In repulled Lie.
- 2 of loading thates present, No beaus or issues observed	1
THE MANY OF 1330CS DOSES VED	
- Observable freeboard appeared	acquiable.
Overall no issues observed as	The of nipe (the
de la composition de la compo	
Decor in Change: x Fred Behnen	5 EHO: Shawn Hardy
Signature : Led beto	Country : 11 11
	Jan Harry
Date: December 20, 2017	



ENVIRONMENTAL HEALTH INSPECTION REPORT CONT'D

Solid Waste Nisposal Site
Solid Waste Disposal Site P.O. BOX BB AKlavik, NT XOE DAO
AKIQVIK, NT XDE DAO
Re: Inspection under the GNWT General Sanitation Regulation
- Sions morted to a little unear la corresota différent
- Signs posted to indicate areas to segregate different wastes barge metal (vaniles) waster awanthy kept near lugger
West Company of the C
- Overall good segregation, liles of household wastes will held better coverage,
will held better coverage,
- No barriers or tencing currently being used to
- No parriers or fencing currently being used to enclose the site.
- Hamlet is giving consideration to future plans for the site as it approaches capacity
as it approaches capacity
No other issues noted at time of injection.
Person in Charge: X Fred Dehrens EHO: Shawn Housey
Signature: Full Signature: flying http
N. L. N. J. Halley
Date December 20, 2017
page / of



Environmental Health Inspection Report

Name of Facility or	Operation SEWU90 FUGURY	Date (d/m/y)
Mailing Address	D. V. Bex PS XOL OAQ	
Physical Address	AKIAVIK NT	
Type of Inspection Tobacco	Other: GNWT Greneral Can/hother DRoutine Complaint DE	ollow-up
Under authority of t observations and/o	the <i>Public Health Act</i> and/or <i>Tobacco Control Act</i> , an inspection of the above listed facility/operation was con Orders are made. Required Correction Dates are listed.	anducted and the following
Item Number	Observations and Corrective Actions	.Correction
<u> </u>	off-loading chates present, only one in use.	No
	sner hoted with the active chatea	1965 386 381 608 944 1 1971 1488 50 808 V 741 381
<u> </u>	obvious (surs poted with freeboard and bes	
	mixed visual inspectous since to mow cover	
X 16H	te: A plack plastic barrel Cappearitor to be	ured
In	fore liquid) was observed close to the	of pading
(6	into on the right. A white plastic bucket	A A
	linged unside down was observed on top of 1	7e -
74d	mel, and scened to lover a funnel and Di	nK-adound
	guid funish would have been powed into	The
	rellandiscuss with the Haplet The	
<u> </u>	ature of Ins pamer and 15 contents	
$\overline{}$	I declaration to be but the sold	
		ripi coton
	ort reviewed with water stant open to	0 N
K	Hy Avery in absence of The Har let free on &	SAO.
Public Health Office	er's Name (print)	
Sha	Wh Hard J Public Wealth Officer's Signature	Poh ///
Owner/Operator (pl	please print)	
X Rox	Lanne John X Karan Que	765.14.18 Dale (d/m/y)
Yello Ph: (867	owknife Inuvik 4840 Hay River 7) 669-8979 • Ph: (867) 777-7250 • Ph: (867) 874-726 7) 669-7517 Fax: (867) 777-3255	Page

Community	Aklavik	Circuit Rider Trainer(s)	Jaime Goddard
Date	Feb 14, 2018	Plant Operator(s)	Kelly Arey
Weather	-40, sun	Other Attendees	Shawn Hardy (EHO)

Activities Since Last Circuit Rider Trip:

Replacement of damaged inline chlorine meter.

Electrician replaced electronics for valves that were burned out due to power fluctuations.

Repair of leak at treated water tank (seems to be an ongoing issue)

Activities During Circuit Rider Trip:

Reviewed sampling requirements

Discussed backup operator certification

Reviewed recent maintenance activities

Landfill and lagoon inspection

Planned Future Activities

Hamlet is looking into surge protection for the WTP building to protect electronics, as they have had frequent problems.

Records Review (e.g. Log sheets, O&M checklists, etc.)

Ok

...

Training Delivered

Review of sampling requirements with Kelly. The two backup operators were not present.

Safety	
Eye Wash	Not checked
Fire Extinguishers	Present
PPE	Not checked

MSDS	Not checked	
Daily Safety	Not checked	
Meetings		
Other	Not checked	

Raw Water System			
Source	Peel River		
Pump Status (duty/stand- by/spare)	Have issues with organic material that clogs the pumps from time to time, no current problems.		
Heat Trace	Not checked		
Water Quality	Good		
Issues	None		
Last Inspected	Not checked		

Truckfill	
Flow Meter	Not checked
Heat Trace	Not checked
Pump Status (duty/stand- by/spare	Not checked
Issues	None noted

Chlorine System/Disinfection		
Туре	Chlorine	
Usage	Not checked	
Storage	Not checked	
Last UV bulb change	n/a	
Other	n/a	

Filtration				
Pressure	Not checked			
Readings				
Filter Condition	Good. Tank was cleaned in January.			
Extra Filter Media	Not checked			
Alarm Status	Ok			
Backwash Cycle	Not checked			
CIP	n/a			
Other	Working well.			

Coagulation		
Type	Not checked	

Dose	Not checked			
Aluminum Level	Ok			
рH	Ok			
Storage	Ok. Recent pipe leak at tank repaired. All operators know this should be checked frequently as there have been leaks in the past.			
Other	n/a			

Treated Water	Storage			
Turbidity	Ok			
Capacity/Level	Not checked			
Chlorine Level	Ok			
Fire Storage	Not checked			
Last	Not checked			
cleaned/inspected				
BacT sample	Ok. Expired reagents disposed of and replaced by EHO.			
history				
Usage Demand	Not checked			
(days of storage				
and capacity				
Other	n/a			

Building Sys	stems	
Heating type	Not checked	
Fuel Level	Not checked	
Last serviced	Not checked	

Backup Gener	ator	
Generator Hours	Not checked	
Last serviced	Not checked	

Other comments from operator:

Backup operator attendance is improving. An additional backup has recently been hired and is being trained.

The new chlorine meter has been working well. Kelly is looking at a filter that the manufacturer suggests to go ahead of the meter.

Noted challenges for Operator:

Power fluctuations cause issues with valves and pumps.

Suggested improvements:

Continued training of backup operators to provide coverage when Kelly is away.

Conclusion:

Plant is running well, need to keep up with ongoing maintenance including leaks.

Other comments:

Work needed at the landfill to improve segregation and maximize use of space – the SAO is looking into some improvements and has been in touch with Gerald Enns at MACA.

WATER SUPPLY

Source:	Peel Channel – Mackenzir 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	Α
						Modifications	N/I

Water Supply Comments:

Water intake from Peel Channel, Mackenzir River. Upstream, no activity noticed during inspection

WASTE DISPOSAL - WELL WASTE

Disposal									
Method									
Off-Site	T _{R1}	Drilling	, .	Downhole		Treat and	١		
Removal	N	Sump	N	Injection	N	Landspread	N	Other	

Indicate:

A - Acceptable

U - Unacceptable N/A - Not Applicable N/I - Not Inspected

Sump Liners	Sump Treatment	Freeboard	
Erosion	Construction		
SNP Samples Collected			

Well Waste Comments:

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Date:	Licence #:	Page No:	1

Biological	/и /	Other INA			- Vicini
Indicate:	A - Acceptal	ble U - Unacceptable	N/A - Not	ed	
Discharge Quality	N/I	Decant Process & Structures	N/A	Discharge Measurement Device	N/I
Freeboard	N/I	Sludge Disposal Method	N/A		
Periods Of Discharge	Contir	nuous	SNP Samples Collected	Y	
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