Affaires Indiennes et du Nord Canada

MUNICIPAL WATER USE INSPECTION FORM

DATE:	September 23, 2004	COMPANY REP:	Debbi Raddi/Peter Nogasak
LICENSEE:	Incorporated Hamlet of Tuktoyaktuk	LICENCE #:	N7L3-0714

WATER SUPPLY – Figures 1-4 attached

	Source: Kudlak Lake				Quan	ntity Used: Refer to Annual Reports					
	Owner/Op	perator:	tor: Incorporated Hamlet of Tuktoyaktuk								
- 1											
	Indicate:	A -	Acceptable	U - Unaccept	table	N/A - Not App	olicabl	e N/	I - Not Inspected		

A

Concerns:

Flow Meas. Device:

1. Small fuel spill at water treatment plant (figure 1). Fuel tank and distribution/conveyance lines badly corroded (figure 1,2). This was addressed in the 2003 Inspection Report.

Pumping Stations:

 U^2

Modifications:

2. Fuel spill 04-572 Pumping Station at Kudlak Lake pumping station (Figure 3). Clean up efforts are currently in progress (figure 4).

Notes:

• Water Treatment Plant and reservoir was secure during inspection.

Conveyance Lines:

WASTE DISPOSAL - Figures 5-15 attached

Sewage	Sewage Treatment System (primary, secondary, or tertiary): Primary										
Natural Water Body:				✓ Co		Continuous	ontinuous Discharge (land or water):				
	Sea	asonal Di	scharge:	✓ Fall decant	Wetlands Treatment:					,	Trench:
Solid Waste Owner/Operator:				Incorporated Haml	let of T	uktoyaktuk					
	Landfill:		✓ Bu		Burn & La	n & Landfill:		(Other:		
Indicate: A - Acceptable			U - Unacc	eptable	e N	'A - Not Applic	cable	N/	I - Not I1	nspected	
Discharge	e Qua	ality:	\mathbf{U}^1	Construction:	N/A	Disch	. Meas. Dev.	Α		Freeboar	rd: A
Decant S	tructi	ures:	A	O&M Plan:	U^4	Dams	s, Dykes:	A		Seepages: A	
Dyke Ins	Dyke Inspections: A A&R Plan: N			N/A	Erosi	on:	A		Spills:	See Water Supply	
Periods o	-Sewage Lagoon was de OctoberSolid Waste Disposal F (SWDF) has not been decant occurred in October.			r. Waste Disposal Facili) has not been decant	ty ed. Las		nt Discharge Ra	nte:	Equa	ıl to pum	p rate

Concerns:

- 1. Discharge of the Sewage Lagoon (figures 6-8) was requested on September 22, 2004. As last year, approval of the discharge at that time was rejected due to high pH levels (above pH 9). As per our letter dated October 05, 2004 fall emergency decant was authorized to maintain structural integrity of the containment berm (figure 6,7) and thus Sewage Lagoon (Part D5, D6). All other parameters were sampled on time and met license effluent quality standards. In the future, industrial discharges to this lagoon will be discouraged until the Hamlet can meet their Water License Discharge criteria. As a note the Hamlet was diligent and made every effort, through sampling and delaying discharge, to meet discharge criteria.
- 2. As indicated last year the SWDF waste oil and hazardous materials area (Figure 12, 13) are becoming permanent storage areas. It is recommended that every effort be made to dispose of these materials at a certified disposal facility. Long term/permanent storage of this material is not recommended. It is only a matter of time before spills occur. It is understood that there is a plan to dispose of this material (waste oil) at Grubens
- 3. No signs seen for waste segregation at SWDF. Signs should be posted for various areas including but not limited to: domestic garbage, tires, appliances, wood, bulky metals, and hazardous wastes (oils, paints, lead-acid batteries) if accepted.
- 4. O&M plan deemed incomplete by the NWT Water Board. September 2000 Drafts as prepared by UMA engineering have been received at this office. Please ensure that these documents are updated to reflect the current conditions of the Waste Disposal Facilities.

Notes:

- Lagoon green color indicating aerobic conditions (figure 8).
- No leaks found at sewage Lagoon and SWDF containment berm (figure 6, 7 and 14, 15 respectively).
- In general considerable work has been done at the SWDF including the old bulk metal waste storage area. This material was crushed and buried. The hamlet is looking for a new bulk metals waste disposal area.
- Currently understood that the landfill does not accept hazardous wastes (used oil, batteries, etc). Currently used oil is disposed of at Grubens and is incinerated. Public does not drop off used oil at this facility.

FUEL STORAGE – Figures 1-4 attached

Owner:	Hamlet		Operator:	Hamlet	Condition of tanks:	Poor (Figure 1)
Berms & Liners	Not berme	ed	Water within Berm:	N/A	Evidence of Leaks:	Yes (Figure 1, 4)
Drainage Pipes:		N/A		Pump Statio	on and Catchment Berm:	N/A
Pipeline Condition: N		N/A		Not Applicable:		

Concerns:

1. See concern 1 & 2 under water supply.

on the waters of Kugmallit Bay".

SURVEILLANCE NE	TWO	RK PROGRAM – Figures 5-8,9,15 attached					
Samples Collected (Han	nlet)		ected various samples prior to decanting the Sewage Lagoon in 2004. ected a sample at the SNP 0714-3. Discharge had yet been conducted.				
(DIA	AND)	-Samples taken at SNP station 0714-1, 2, 3Sample taken of ocean water at North East most end of town (b-Ten part composite sample was taken at the SWDF pond along (figure 14)All results pending2003 sample results (attached to this inspection report) are sum SNP 0714-1 – No concerns noted. SNP 0714-2 – High pH (9.75) above permit limits fo guidelines there is concern of ammonia toxicity to recelevels. SNP 0714-3 – Elevated parameters likely caused by oce	g the north west nmarized below or discharge, as eiving environn	v: s per CCME nents at high pH			
Signs Posted: SNP	-Yes below	SNP 0714-2 & 3 posted (figures 5, 9). Please see concern 1 w.	Warning	No warnings seen			
Records & Reporting:	M st -(-1	The 2003 Annual report not completed. Hamlet was reminded that farch 31, 2004. Please ensure that all abandonment and restoration ammarized. Condition Assessment Report of Tuktoyaktuk Sewage Lagoon substantiation and the Condition Assessment Report submitted July Inderstanding that IEG is currently working on the "assessment of the Condition Assessment of the Cond	on work, as don omitted August y 14, 2004.	at the SWDF, is 11, 2004.			

Concerns:

Geotechnical Inspection

SNP 0714-2 & 3 signs (figures 5 & 9 respectively) posted but should be relocated. Please place SNP 0714-2 & 3 where water samples are taken at locations identified in figures 7 & 15 respectively.

Submitted – See UMA Condition Assessment reports dated September 2000.

Notes:

As a reminder please note that any discharge from the SWDF lagoon must occur between September 15 and October 31 (Part D13). Also see conditions for discharge (Part D14-D19).

Non-Compliance / Violations of Act of Licence:	 Part B, section 1. 2003 Annual Report not submitted. Part D, section 9. The "terms of reference for an assessment of the effects of sewage discharge on the waters of Kugmallit Bay" not submitted. Part D, section 10. Report as per D9 not completed and was due December 1, 2003.
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General / Additional Inspection Comments:

- ***Hamlet was reminded by letter on May 5, in the 2001-2003 inspection reports and during this inspection that the Hamlets Water Licence Expires April 29, 2005. Recommended Submission of renewal document was August 31, 2004.***
- A copy of the Water Licence was produced.

Additional Comments Attached:	Yes		No	X
Figures Attached:	Yes	X	No	

Inspectors Signature





LIST OF FIGURES FOR WATER LICENCE INSPECTION REPORT

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Figure 1. Water Supply. Fuel storage at water treatment plant.



Figure 3. Water Supply. Water intake pumping station at Kudlak Lake



Figure 5. Waste Disposal. Sewage Lagoon entrance and SNP 0714 sign.



Figure 7. Waste Disposal. Proper location for SNP 0714-2 sign.



Figure 2. Water Supply. Fuel storage at water treatment plant and chlorination system.



Figure 4. Water Supply. Sea Can Fuel Storage Container at Figure 3 and spill 04-572 clean up efforts.



Figure 6. Waste Disposal. Sewage Lagoon (south west end) containment berm.



Figure 8. Waste Disposal. Sewage Lagoon SNP 0714-2 sampling area.





Figure 9. Waste Disposal. SWDF entrance and SNP 0714-3 SNP sign.



Figure 11. Waste Disposal. SWDF north west view with old bulk metal waste storage facility in the background.



Figure 13. Waste Disposal. SWDF waste oil and hazardous wastes disposal area.



Figure 15. Waste Disposal. SWDF north west containment berm and proper location for SNP 0714-3 sign.



Figure 10. Waste Disposal. SWDF domestic garbage disposal area.



Figure 12. Waste Disposal. SWDF waste oil and hazardous wastes area.



Figure 14. Waste Disposal. SWDF north west containment berm



