



**Indian and Northern  
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North Mackenzie District  
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**Affaires Indiennes  
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Telephone: 867-777-3361  
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March 26, 2009

Gwich'in Land and Water Board  
P.O. Box 2018  
Inuvik, NT X0E 0T0

**Attn: Robert Alexie, Executive Director**

**RE: Municipal Water Licence (G08L8-002)**

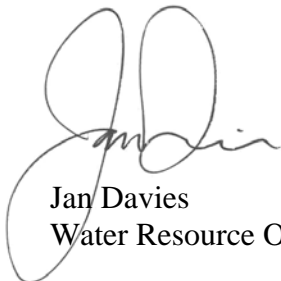
Dear Mr. Alexie,

Please find the enclosed Inspection Report for your review and/or records.

An electronic copy (un-editable Adobe pdf.) has also been provided by e-mail.

If you have any questions or concerns regarding the enclosed, and/or if additional information is required please contact me at 867-777-3662.

Sincerely,



Jan Davies  
Water Resource Officer

Cc: Conrad Baetz, District Manager, North Mackenzie District, Inuvik, NT  
Inuvik Sub-District

Enclosure: Water Licence Inspection Report and Cover Letter (4 pages)



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May 22, 2009

The Gwich'in Tribal Council  
PO Box 1509  
Inuvik, NT, X0E 0T0

**Attn: Jennifer Johnston**

**RE: Municipal Water Licence (G08L8-002)**

Dear Ms. Johnston,

An inspection was conducted of the Camp Water Supply and Waste Disposal Facilities on May 7, 2009. Enclosed is a copy of the Water Licence Inspection Report.

Unfortunately there were a number of violations as depicted on page two of the Inspection Report. Some of the violations are maintenance related and can be dealt with promptly. Please review the concerns throughout the Inspection Report.

Please note that it is the Camp's responsibility to ensure compliance with all of the terms and conditions of its Water Licence. INAC looks forward to working with you as much as possible to achieve compliance.

Pending your review, a copy of this report will be sent to the Gwich'in Land and Water Board on **May 26, 2009** for their review and/or public records. If no response is received by this date we will assume you have no concerns.

If you have any questions, please contact me at 867-777-3662.

Sincerely,

Jan Davies  
Water Resource Officer

Cc: Conrad Baetz, District Manager, North Mackenzie District, Inuvik, NT

Enclosure: Water Licence Inspection Report (3 pages)



## WATER LICENCE INSPECTION FORM

<b>DATE:</b>	May 7, 2009	<b>COMPANY REP:</b>	Jennifer Johnston
<b>LICENCEE:</b>	The Gwich'in Tribal Council	<b>LICENCE #:</b>	G08L8-002

### WATER SUPPLY

Source:	East Branch of Mackenzie River	Quantity Used:	<336 m <sup>3</sup>
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Owner/Operator: The Gwich'in Tribal Council

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

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

**Comments:**

1. Records of water usage from the various sources need to be maintained as this information is used in the Annual Report and to determine compliance with Water Licence water usage limits.

**Notes:**

- Dowland Contracting Ltd. cleaned out Water Treatment Plant tanks in April.
- 3 truckloads (~2 m3 each) of treated water was hauled in from Inuvik during winter.

### WASTE DISPOSAL

Well Waste	Off-Site Removal	N/A	Drilling Sump	N/A	Downhole	N/A	Land spread	N/A
Sewage	Sewage Treatment System (primary, secondary, or tertiary)				tertiary			
	Natural Water Body	N/A		Continuous Discharge (land or water)		N/A		
	Seasonal Disch.	A		Wetlands Treatment	N/A		Trench	N/A
Solid Waste	Owner/Operator:	N/A						
	Landfill	A		Burn & Landfill	N/A		Other	N/A

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

Discharge Quality	U <sup>1</sup>	Construction	N/A	Disch. Meas. Dev.	A	Freeboard	N/A
Decant Structures	A <sup>2</sup>	O&M Plan	N/A	Dams, Dykes	N/A	Seepages	N/A
Dyke Inspections	N/A	A&R Plan	U <sup>6</sup>	Erosion	N/A	Spills	U <sup>4,5</sup>
Periods of Discharge	Dec - April, June - Sept		Effluent Discharge Rate		equal to usage		

**Comments:**

**Concerns:**

1. Treated sewage effluent discharge needs to be further analyzed as per Surveillance Network Program (SNP) requirements in the Water Licence. Ensure sampling occurs and lab analysis results are made available. (see the Surveillance Network Program Section).
2. Length of sewage effluent discharge hose should continue to be monitored to make sure there is proper drainage given the close proximity of the discharge area to the camp. This will make certain the sewage effluent continues to drain away from camp area (see Figure 1).
3. Used oil spilled from storage containers as a result of a recent oil change for the generators. Spillage needs to be cleaned up entirely as this has the potential to cause further damage to the environment. It is recommended that a more efficient and cleaner method is used to change and store used oil (see Figure 2).
4. Oil was present in drip trays under the generators. Continue to monitor the drip trays to ensure there is adequate coverage of the generators to contain any spilled material and to maintain clean facilities.
5. The Abandonment and Restoration Plan is in the process of being submitted. The Plan was due February 27, 2009 (6 months) from the issuance of the Water Licence for the Gwich'in Wellness Camp.
6. The Waste Management Plan is in the process of being submitted. As per Water Licence requirements the Plan was due December 31, 2008.

**Note:**

- Sewage Treatment Plant sludge removed by Bob's Welding Ltd. and taken for disposal to the Inuvik Sewage Lagoon.
- Overflow has occurred from primary tank during heavy loads. Pumps are reset so it doesn't overflow and prevent further occurrences.
- It is understood that the spilled oil has since been cleaned up.

**FUEL STORAGE**

Owner:	Gwich'in Tribal Council	Operator:	Gwich'in Tribal Council	Condition of tanks:	A - Double wall tank
Berms & Liners	N/A	Water within Berm:	N/A	Evidence of Leaks:	A <sup>1</sup>
Drainage Pipes	N/A	Pump Station and Catchment Berm	N/A		
Pipeline Condition	A	Not Applicable:	N/A		

Comments:

Concerns:

1. Evidence of fuel staining on the gravel underneath the fuel storage tank. The affected area needs to be cleaned up and properly disposed of. Confirm that the piping and tank is secure. When re-fuelling the tank ensure there is no spillage and the fuel storage tank is not overfilled.
2. Given the current volume of fuel storage and the proximity to the Mackenzie River it is recommended that a lined berm (tertiary containment) be installed to include the fuel storage tank and piping to prevent contamination of the downstream freshwater supply in the event of a fuel spill.

Note:

- There are plans to install another fuel storage tank that is 1.5 times bigger than the current tank.

**SURVEILLANCE NETWORK PROGRAM**

Samples Collected Camp	None. Sampling is required as per the Water Licence - Surveillance Network Program. Sample results have not been provided to date.		
Samples Collected DIAND	None during the inspection.		
Signs Posted: SNP	Signs are needed to identify the stations of the Surveillance Network Program.	Warning	Signs still needed to inform the public of Water Supply and Waste Disposal Facilities.
Record & Reporting	2008 Annual Report is in the process of being submitted. It was due by March 31, 2009.		
Geotechnical Inspection	N/A		


Comments:

Concerns

1. Camp is required to be sampling as per the Surveillance Network Program to monitor discharge quality from the Sewage Disposal Facility.
2. Ensure Annual Reports are submitted as per Water Licence Criteria Part B1.

<b>Non-Compliance of Act or Licence:</b>	<p>Violations of Water Licence G08L8-002</p> <ol style="list-style-type: none"> <li>1. Part B2, Licensee shall comply with the "Surveillance Network Program".</li> <li>2. Part B5, Post signs to identify the stations of the "Surveillance Network Program".</li> <li>3. Part B6, Post signs to inform the public of Water Supply and Waste Disposal Facilities.</li> </ol>
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Inspector's Signature:





## WATER LICENCE INSPECTION REPORT Pg. 2 (Continued)

Date:	May 7, 2009	Licence #:	G08L8-002
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**Inspection Images:**

**Figure 1**

Treated sewage effluent discharge hose and area located at the edge of the camp.



**Figure 2**

Spillage of used oil on ground near used oil storage containers.

