

WATER USE INSPECTION REPORT FORM

Date: August 17 , 2011	Licensee Rep. (Name/Title): Moe Keenainak ASAO, Ron Mongeau SAO
Licensee: Municipality of Pangnirtung	Licence No.: 3BM-PAN0810 Expired

WATER SUPPLY

Source(s): Duval River	Quantity used: Unknown.
Owner:/Operator: Municipality of Pangnirtung	Community Reservoir is filled Annually

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: U	Storage Structure: A	Treatment Systems: A	Chemical Storage: A
Flow Meas. Device: U	Conveyance Lines: A	Pumping Stations: A	Screen : A

Comments: Water from Duvall River annually replenishes the Community Reservoir. The water level in the reservoir at the time of inspection was very low. The hamlet foreman suggested it was time to clean the reservoir but had not had time this summer.

Chlorination testing records were incomplete and it appears the chlorination pump was off line or no chlorine was available in the community for a period of time. The SAO was unable to confirm the dates and duration of when the treatment system was off-line.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Primary/ mechanical

Natural Water Body: No	Continuous Discharge (land or water): land	
Seasonal Discharge: No	Wetlands Treatment: None	Trench: None

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Discharge Quality: U	Decant Structure: NA	Erosion: U
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: NA
Dams, Dykes: NA	Freeboard: NA	Spills: None
Construction: NI	O&M Plan: U (none submitted)	A&R Plan: U (None submitted)
Discharge: continuous	Effluent Discharge Rate: Unknown	

Comments: The treatment plant continues to struggle with the volume of effluent input into the system. It appears that the plant is unable to process the quantities of effluent being input into the system. The discoloration on the dispersion field, originally identified in 2008, continues to grow as of this past inspection. Run off from the dispersion field has also cut a large channel through the permafrost down to the shoreline of the fiord

Sludge from the WWT Plant continues to pile up in the solid waste management area. The SAO and Hamlet foreman have been cautioned many times over the years that the practice of surface disposal of Sludge is contrary to the issued license and not acceptable to the inspector. The Licensee is reminded that all sludge and fish offal are not to be dumped in the waste management area. Sludge and processing from the fish plant are to be buried as outlined in the now expired license.

Samples from the pond below the North West corner of the Waste management area were collected.

It was noted that John Smith of EXP (nee Trow) was in the community completing an assessment of the Municipal Waste management Area at the time of the Inspection.

Solid Waste: Municipal Land fill and Metals waste area

Owner/Operator: Municipality of Pangnirtung

Landfill: Not segregated	Burn & Landfill: U	Other: Hazardous Mat. Area: U
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Comments: Municipal Land fill requires work. As noted in 2008 and 2009 the Solid Waste management area requires proper segregation of Hazardous wastes into a lined containment area for storage, packaging for shipment off site is required. Piles of what looked like old paint cans and barrels of what were identified as waste oil are within the facility on a liner but leaks and spills throughout the facility are obvious.

A sea-can has been placed at the entry to the Waste Management facility for use as a storage area for batteries.

A new metals / vehicle storage area has been created outside the boundaries of the existing solid waste management area. This new area is not covered under the existing/ now expired license and is a change to the operations of the Facilities within the community.

Sewage sludge remains unburied and Fish offal also remains on site unburied contrary to the license.

FUEL STORAGE: Bulk fuel storage is owned by the Government of Nunavut

Waste Oil Storage: Municipal dump **Owner/Operator:** Municipality of Pangnirtung
 Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: NI	Water within Berms: NI	Evidence of Leaks: NI
Drainage Pipes: NI	Pump Station & Catchments Berm: Ni	
Pipeline Condition: NI	Condition of Tanks: Metal tanks: NI	

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: No sampling results have been submitted	
3	INAC: Effluent, leachate and Potable water	
Signs Posted	SNP: none	Warning: No Signage present
Records & Reporting: None of the reports as required under the now expired license have ever been filed by the licensee.		
Geotechnical Inspection: N/A		

Non-Compliance of Act or Licence: During the period of Inspection the Inspector noted the following;

- Failure to provide Annual Reports since 2003/4
- Failure to implement the Monitoring Program
- Failure to consolidate and segregate Sewage Sludge from the Waste Water Treatment Facility stored in the Solid Waste Management Facility
- Failure to maintain the appropriate signage, and Surveillance Network Program (SNP)
- Failure to develop and submit for approval to the NWB the required Operation and Maintenance Manuals for the Water Supply Facilities and the Solid Waste Disposal Facilities
- Failure to submit, as required, a Plan for Compliance (Part B (10)) (3BM-PAN0810-expired)
- Failure to dispose of, and contain all fish wastes as outlined in the issued License (Part D (6)) (3BM-PAN0810-expired)

The Municipality of Pangnirtung has been provided over the last three years of inspections numerous opportunities to achieve compliance with the issued Water License.

The continued failure of the Municipality to provide even the most basic information as outlined in the License's requirements to submit by March 31st of each year an Annual report is not acceptable after this period of time.

It is the recommendation of the Inspector that an Inspector's Direction is issued requiring the following;

- Annual reports between 2004 and 2011 be submitted by March 31st 2012
- Submission of a Plan for Compliance (Part B (10)) (3BM-PAN0810-expired) by March 31st, 2012
- Complete work as required to segregate and bury Sewage sludge from the Waste Water Treatment Facility stored in the Solid Waste Management Facility is completed before November 1st 2011
- Complete work as required in the Solid Waste Management facility to dispose of, and contain, all fish wastes as outlined in the issued License (Part D (6)) (3BM-PAN0810-expired) is completed before November 1st, 2011
- Submission of the following Operations and Maintenance Plans as required under Part F Item 1 of the now expired license 3BM-PAN0810 by March 31st, 2012
 - a. Water Storage and Distribution Facility Operation and Maintenance (O&M) Plan;
 - b. WWTP Operation and Maintenance (O&M) Plan;
 - c. Fish Process Plant Waste Management Plan;
 - d. Sewage Sludge and Screenings Management Plan;
 - e. Solid Waste Disposal Facility Operation and Maintenance (O&M) Plan;
 - f. Spill Contingency Plan; and
 - g. Monitoring Program Quality Assurance/Quality Control Plan.

Finally the Licensee is reminded that failure to comply fully or in part with an **Inspector's Direction** constitutes a offence under subsection 90 (1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act and entails, upon summary conviction, a fine of \$100,000 or to imprisonment for a term of one year, or both.

Further pursuant to subsection 90 (4) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, each day on which the **Inspector's Direction** is not complied with shall be considered a separate offence.

If you have any questions or concerns regarding this report please do not hesitate to contact the undersigned.

A.Keim

Inspector's Name

Sent by E-mail Original on File

Inspector's Signature

Cc:
Bernie MacIsaac- A/Manager Field Operations
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