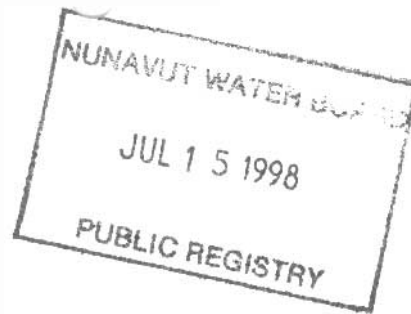




DIAND Nunavut District  
Box 100  
Iqaluit, NT  
XOA OHO



July 3, 1998

Your file    Votre référence

Our file    Notre référence

Mr. Darren Flynn  
Senior Administrative Officer  
Hamlet of Arviat  
Arviat, NT  
XOC OEO

B9545-5-N6L4-1562 (assigned)

Dear Mr. Flynn,

**Re:    Municipal Water Inspection - June 10, 1998**  
**Hamlet of Arviat - N6L4-1562 (assigned)**

1. Please find attached a copy of the inspection report prepared as a result of the inspection carried out on the municipal water supply and waste disposal operations of the Hamlet of Arviat on June 10, 1998.
2. The status of the Arviat water licence is presently on hold. A number of years ago, when the NWT Water Board had jurisdiction, they required a sewage study to be carried out prior to the issuance of the licence. This study was completed, but the decision was made to hold off with issuing a licence because the Nunavut Water Board (NWB) was going to be assuming this role and the NWT Water Board was reluctant on imposing a licence whose terms and conditions may not have been those of the NWB.
3. Since that time the NWB lost their office in a fire. All original paper work, such as the Hamlet's original application was destroyed. I've sent a copy of all relevant information we had on file to the NWB regarding the Hamlet's application, but it will be their decision on how they want to proceed from here. It may be that the Hamlet will be asked to resubmit information to permit the licence processing to begin. Regardless, the NWB should contact you to advise the Hamlet of a course of action that they will be taking.
4. Also attached is the analysis done on sewage effluent. Ammonia levels in the sewage effluent are below 10 mg/L and is consistent with levels recorded at this time of year in the past.

.../2

5. If you have any questions with respect to the inspection report, please do not hesitate to contact me at the above address, or by phone at (867)-979-4405.

Sincerely,



Paul Smith  
Water Resources Officer  
Nunavut District

cc. - Nunavut Water Board, Gjoa Haven  
- DIAND Water Resources, YK  
- RMO, DIAND, Rankin  
- Don Forsyth, MACA, Rankin  
- Bill Rideout, Public Health, Rankin

TAIGA ENVIRONMENTAL LABORATORY  
Dept. Indian Affairs & Northern Development  
4601-52 nd Ave., Box 1500  
Yellowknife, NT. X1A 2R3  
Tel. (867) 669-2788  
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To: NUNAVUT  
WATER RESOURCES, NAP, DIAND  
BOX 100  
IQALUIT  
X0A 0H0  
Att'n: PAUL SMITH

LAB# 980784

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**SAMPLE INFORMATION**

Our Lab#: 980784  
Your Sample ID: SEWAGE EFFLUENT  
Sample Matrix: SEWAGE

PROJECT:

Collection:

Location: Hamlet of Arviat  
Date: 6/11/1998  
By: P. Smith

Received Date: 15-June-1998

Report Date: 23-Jun-98

Approved By: W. T. [Signature]

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**- SAMPLE ANALYSIS REPORT -**

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
980784	Ammonia-N	9.97	mg/L	0.002	6/17/1998	007562

## Inspection Report

Hamlet of Arviat

Page 2

June 10, 1998

### Note 1

Water Reservoir Expansion. This is a 2-year, \$2 million project. Mr. Flynn noted that there may be some capacity shortage this year as the smaller of the two cells is the one to be expanded which will mean reduced volumes of stored water over the winter. Population is nearing 2,000.

Solid waste disposal. The site is scheduled to receive fencing this year. There are no official plans to expand/relocate, but due to it's proximity to the airport, there is an expressed desire from the Foreman that this is a consideration.

The working face is expanding into a marshy area. More cover material is required.

Warning signs are required at both the sewage and domestic waste disposal areas.

### Note 2

A little 'pingo' like structure develops at the base of the sewage lagoon every winter. This is due to the unfrozen nature of the berm in early winter that allows (by design) seepage. This seepage freezes after leaving the lagoon and results in this odd accumulation. Although this initially caused some concerns, apparently the lagoon berm is unaffected and is not threatened.

End



## MUNICIPAL WATER USE INSPECTION FORM

DATE: June 10/98 COMPANY REP.: Darren Flynn (SAO) / Bernie Ulvarlund  
 LICENSEE: Hamlet of Arviat LICENCE #: Unlicensed Hamlet Foreman  
NW 4-1562 assigned

### WATER SUPPLY

Source (s): Wolf Creek/Reservoir Quantity Used (to date): ~ 38,000 m<sup>3</sup>/year  
 Owner/Operator: Hamlet (estimate or actual)

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

Intake Facilities: Not inspected Storage Structure Note 1 Treatment Systems A Chem. Storage A

Flow Meas. Device A Convey. Lines A Pumping Stations A

Comments: Hamlet is presently tendering for an extension/expansion of the reservoir.

### WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Secondary? / infiltration 2-cell lagoon

Natural Water body \_\_\_\_\_ Continuous Discharge (land or water) to ocean

Seasonal Discharge ✓ Wetlands Treatment Some Trench \_\_\_\_\_

Solid Waste: Owner/Operator: Hamlet

Landfill \_\_\_\_\_ Burn & Landfill ✓ Other \_\_\_\_\_

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

Disch. Quality N/A Decant Structure Note 2 Erosion A

Disch. Meas. Dev. N/A Dyke Inspection N/A Seepages A

Dams, Dykes Note 2 Freeboard A Spills N/A

Construcion N/A O & M Plan N/A A & R Plan N/A

Periods of Discharge: Seasonal Effluent Discharge Rate: Varies

Comments: See Second Page

### FUEL STORAGE

Owner: \_\_\_\_\_ Operator \_\_\_\_\_ Condition of Tanks \_\_\_\_\_

Berms & Liners \_\_\_\_\_ Water within berm: \_\_\_\_\_ Evidence of Leaks: \_\_\_\_\_

Drainage Pipes \_\_\_\_\_ Pump Station and Catchment Berm \_\_\_\_\_

Pipeline Condition \_\_\_\_\_ Not Applicable: ✓

### SURVEILLANCE NETWORK PROGRAM

Samples Collected: (Hamlet) Not required

(DIAND) Sewage effluent

Signs Posted: SNP Not Required Warning Required at water + waste facilities

Record & Reporting Not Required

Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: Hamlet applied for licence, but was delayed until completion/acceptance of sewage effluent study. This study was completed, but now delayed due to transfer from NW Water Board to Nunavut Water Board.

Page 2 attached Yes ✓ No \_\_\_\_\_

Licensee Representatives Title

Inspectors Name

Licensee Representatives Signature

Inspectors Signature