



DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

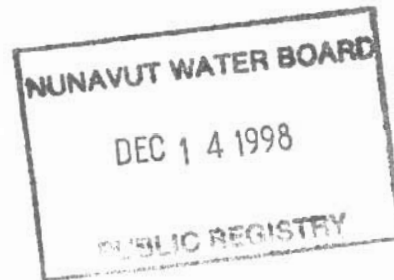
Notre référence: votre référence

Our file: Notre référence

December 1, 1998

N7L4-1526

Mr. David White
Senior Administrative Officer
Hamlet of Kugluktuk
Kugluktuk, NT
XOE OEO



Dear Mr. White;

**Water Licence Inspection; August 28, 1998
& Analytical Results for Water Samples**

1. Please find enclosed a copy of the inspection report prepared as a result of the water licence inspection carried out August 28, 1998 on water licence N7L4-1526 held by the Hamlet of Kugluktuk.
2. There are few operational concerns of note, however, and as was discussed with Mr. Alvin Fell, A/SAO, at the time of the inspection, the Hamlet had yet to submit the 1997 Annual Report. This is a requirement of the licence (Part A, Item 3) and failure to submit this report is a violation of the licence and the *NWT Waters Act*.
3. It is important that this shortcoming is addressed immediately. Upon receipt of this letter, I would appreciate if you could advise this office when this requirement will be completed.
4. Also attached are the results from water samples collected at the time of the inspection as well as a sample collected on July 8, 1998. Both sewage samples were collected just before the effluent enters the ocean. Both sets of results indicate that the current sewage disposal/treatment system provides significant (near tertiary level) treatment of sewage before it enters the marine environment.
5. I would like to extend my thanks to Philip Katak (Hamlet Foreman) for his assistance during the inspection.

.../2

6. Should you have any questions about the inspection report, what is expected of the Hamlet or the analytical results, 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
- Kojo Kumi, MACA, Cambridge Bay
- Bob Philips, Environmental Health, YK

MUNICIPAL WATER USE INSPECTION FORM

DATE: August. 28/98 COMPANY REP.: Philip Ketch (Foreman)
LICENSEE: Hamlet of Kugluktuk LICENCE #: N744-1526

WATER SUPPLY

Source (s): Coppermine River Quantity Used (to date): ~ 35,000 m³/year
Owner/Operator: GNWT / Hamlet (estimate or actual) meter reading: 91921300 I/G

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

Intake Facilities: A - Note Storage Structure Note 2 Treatment Systems A Chem. Storage A
Flow Meas. Device A Convey. Lines A Pumping Stations A
Comments: See following page

WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Primary settling, tertiary wetland
Natural Water body ✓ Continuous Discharge (land or water) yes
Seasonal Discharge ✓ Wetlands Treatment yes Trench ✓

Solid Waste: Owner/Operator: GNWT / Hamlet
Landfill ✓ Burn & Landfill ✓ Other ✓

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

Disch. Quality A Decant Structure Coarse granular berm Erosion N/A
Disch. Meas. Dev. N/A Dyke Inspection N/A Seepages A
Dams, Dykes N/A Freeboard N/A Spills N/A
Construction N/A O & M Plan Nil A & R Plan Nil
Periods of Discharge: Seasonal Effluent Discharge Rate: varies
Comments: No concerns

FUEL STORAGE

Owner: GNWT Operator Hamlet 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) ✓
(DIAND) Sample effluent
Signs Posted: SNP In place Warning In place
Record & Reporting Hamlet has failed to submit 1997 Annual Report.
Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: Failure to submit 1997 Annual Report (Part A, Item 3 of licence).

Page 2 attached Yes ✓ No ✓

Licensee Representatives Title

Licensee Representatives Signature

Inspectors Name

Inspectors Signature

Inspection Report

Hamlet of Kugluktuk
August 28, 1998

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Note 1:

Intake facilities: A number of changes will be made here. Included will be new pipe supports, salinity alarm, and ventilation system.

Note 2:

MACA has planned some significant modifications to the water supply and distribution system, which include, but are not limited to:

- * an earthen bermed reservoir (with a 10 day supply capacity (3,000,000 l)) will be constructed in 1999/00. This will provide the residents a supply of fresh water should there be a salt water intrusion event on the Coppermine River intake. Presently there are 2 x 180,000 l galvanized steel tanks which store chlorinated water.
- * a 'RTOH2O' cartridge filter system will be installed to alleviate turbidity problems.
- * changes will be made in the electrical system
- * heat exchangers and boilers require to be upgraded in the pumphouse and truckfill portion.

End

TAIGA ENVIRONMENTAL LABORATORY

Indian Affairs & Northern Development

1-52 nd Ave., Box 1500

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Fax: (867) 669-2718

To: KUGLUKTUK

BOX 278

KUGLUKTUK

NT X0E 0E0

Att'n: Pat Laroque

LAB# 980969

SAMPLE INFORMATION

Our Lab#: 980969

PROJECT:

Your Sample ID: SEWAGE DISCHARGE @ CORNATION

Sample Matrix: SEWAGE

Collection:

Location: Cornation Gulf

Date: 08/07/1998

By: P. Laroque

Received Date: 08-July-98

Report Date: 22-Jul-98

Approved By: **- SAMPLE ANALYSIS REPORT -**

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
980969						
	Turbidity	2.9	NTU	0.1	14/07/1998	002081
	Tot-Suspended-Solids	5	mg/L	3	13/07/1998	grav
	Ammonia-N	0.003	mg/L	0.002	13/07/1998	007562
	Tot-Coliforms	30	CFU/dL	1	10/07/1998	036002
	Faecal_Coliform	L10	CFU/dL	1	10/07/1998	036014
	Bio-Oxy-Demand	35	mg/L	2	10/07/1998	08208