Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

Your file Votre référence

Our file Notre référence

B9545-5-S199

September 16, 1998

Mr. Brian Fleming
Senior Administrative Officer
Hamlet of Sanikiluaq
Sanikiluaq, NT
XOA OWO

Dear Mr. Fleming,

Water Management Inspection Report - Hamlet of Sanikiluaq; August 15, 1998

1. Attached for your information is a copy of the inspection report prepared as a result of the water management inspection carried out on August 15, 1998.

2. Also attached are the results of the water analysis. Samples were collected from the water lake and effluent from the sewage lagoon. The drinking water met all the Health and Welfare guidelines. Only a couple of parameters normally collected for sewage effluent samples could be collected, but those parameters tested indicate that the combination of lagoon and wetlands provides very good treatment for the community's sewage.

3. Apart from concerns with the waste disposal site, the other outstanding issue that must be addressed is the Hamlet's requirement to obtain a water licence. This a requirement of both the *NWT Waters Act* and the Nunavut Land Claims Agreement. At last we spoke, you mentioned that the application was nearly complete and that it would be submitted shortly. Please advise this office when it is submitted.

4. Should you have any questions concerning the inspection report or the analytical results, please do not hesitate to call me at (867)-979-4405.

Sincerely,

Paul Smith
Water Resources Officer
Nunavut District

NUNAVUT WATER BOARD
SEP 2 3 1998
PUBLIC REGISTRY

cc. - Nunavut Water Board, Gjoa Haven
- DIAND Water Resources, YK
- MACA, Iqaluit
- Public Health, ~~Iqaluit~~ Rankin Inlet

Canada

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Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

MUNICIPAL WATER USE INSPECTION FORM

DATE: August 15/97 COMPANY REP.: Brian Fleming, SAO

LICENSEE: Hamlet of Sanikiluaq LICENCE #: Unlicensed

WATER SUPPLY

Source (s): Sanikiluaq Lake Quantity Used (to date): N/A ~ 15,000 m³ (estimate or actual)

Owner/Operator: GNWT-DPW / Hamlet

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

Intake Facilities: A Storage Structure N/A Treatment Systems A Chem. Storage A

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

Comments: Many residents continue to collect water from alternate water sources.

WASTE DISPOSAL

Sewage — Sewage Treatment System (primary, secondary or tertiary) Probable Secondary in lake, tertiary via wetlands Probable

Natural Water body ✓ Continuous Discharge (land or water) Seasonal overland to Ocean

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	See note	Erosion	Nil
Disch. Meas. Dev.	N/A - Nil	Dyke Inspection	N/A	Seepages	N/A
Dams, Dykes	See note	Freeboard	N/A	Spills	N/A
Construcion	N/A	O & M Plan	Nil	A & R Plan	Nil

Periods of Discharge: Effluent Discharge Rate: 2-3 l/s

Comments: Gravel barrier has been placed at discharge point of lagoon/lake system - presumably to increase retention time and act as a permeable barrier

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) Raw water, Sewage effluent

Signs Posted: SNP N/A Warning Required - Signs in poor shape.

Record & Reporting N/A

Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: Hamlet is unlicensed.

Page 2 attached Yes ✓ No

Pam Smith

Licensee Representatives Title **Inspectors Name**

Not Available

Licensee Representatives Signature **Inspectors Signature**

WHITE COPY - Inspector's File YELLOW COPY - Licensee GREEN COPY - Field Rep PINK COPY - Water Resources

Solid Waste Disposal Site

A fair amount of work has been carried out at the dump in order to burn and push debris. Dump is still sprawling and largely remains uncovered. Dump is also unfenced.

MACA has identified 30k next year to study the waste disposal problem in this community and has set aside $100k for each of the two following years to rectify the problems.

The basic problem is that the dump is upwind from the community and that often burning is not possible. This in concert with a lack of available cover material and an ill-defined perimeter has lead to a sprawling uncontrolled waste disposal area.

Water samples were collected from 1.) the water lake (along shore at the small peninsula where the intake line runs) and 2.) about 150m below the outlet of the sewage lagoon.

End

TAIGA ENVIRONMENTAL LABORATORY
Dept. Indian Affairs & Northern Development
4601-52 nd Ave., Box 1500
Yellowknife, NT. X1A 2R3
Tel. (867) 669-2788
Fax: (867) 669-2718

To: NUNAVUT
WATER RESOURCES, NAP, DIAND
BOX 100

IQALUIT X0A 0H0
Att'n: PAUL SMITH

LAB# 981315

SAMPLE INFORMATION

Our Lab#: 981315
Your Sample ID: Raw Water
Sample Matrix: Raw Water

PROJECT: Inspect'n

Collection:
Location: Sanikiluaq
Date: 8/15/1998
By: P.Smith

Received Date: 18-Aug-98
Report Date: 08-Sep-98
Approved By:

- SAMPLE ANALYSIS REPORT -

Lab#	Test		Result	Units	Detection Limit	Analysis Date	Analytical Method
981315							
	pH		8.06	pH	0.05	8/18/1998	010301
	Fluoride	<	0.05	mg/L	0.05	9/03/1998	009105
	Colour		L5		5.00	8/20/1998	02021
	Conductivity		325	uS/cm	0.3	8/18/1998	02041
	Tot-Suspended-Solids		L3	mg/L	3	8/20/1998	grav
	Tot-Cadmium(ICP-MS)		L0.1	ug/L	0.1	8/25/1998	ICP-MS
	Tot-Cobalt(ICP-MS)		L0.1	ug/L	0.1	8/25/1998	ICP-MS
	Tot-Chromium(ICP-MS)		L2	ug/L	2.0	8/25/1998	ICP-MS
	Tot-Copper(ICP/MS)		0.9	ug/L	0.1	8/25/1998	ICP-MS
	Tot-Iron(AA)		L0.02	mg/L	0.020	9/01/1998	ICP-MS
	Tot-Manganese(ICP-MS)		14.6	ug/L	0.1	8/25/1998	ICP-MS
	Tot-Nickel(ICP-MS)		0.4	ug/L	0.1	8/25/1998	ICP-MS
	Tot-Lead(ICP-MS)		L2	ug/L	2.0	8/25/1998	ICP-MS
	Tot-Zinc(ICP-MS)		L25	ug/L	25.0	8/25/1998	ICP-MS

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To: NUNAVUT
WATER RESOURCES, NAP, DIAND
BOX 100

IQALUIT X0A 0H0

Att'n: PAUL SMITH

LAB# 981316

SAMPLE INFORMATION

Our Lab#: 981316
Your Sample ID: Sewage Effluent
Sample Matrix: Sewage

PROJECT: Inspect'n

Collection:
Location: Sanikiluaq
Date: 8/15/1998
By: P.Smith

Received Date: 18-August-1998
Report Date: 27-Aug-98
Approved By:

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981316						
	Tot-Suspended-Solids	L3	mg/L	3	8/20/1998	grav
	Ammonia-N	0.014	mg/L	0.002	8/20/1998	007562