



DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

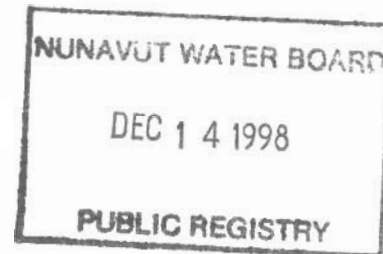
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December 2, 1998

N4L3-1532

Mr. Blayne Penrice
Senior Administrative Officer
Hamlet of Cambridge Bay
Cambridge Bay, NT
XOE OCO



Dear Mr. Penrice;

Water Licence Inspection; August 27, 1998
Analytical Results for Samples Collected

1. Please find attached a copy of the inspection report prepared as a result of the water licence inspection carried out on August 27, 1998 on water licence N4L3-1532 held by the Hamlet of Cambridge Bay.
2. While there are few operational issues (see below), there remain a number of significant administrative issues that are outstanding and must be addressed.
3. Your attention to the following matters is required to address issues of non-compliance of the water licence:
 - the 1997 Annual Report has yet to be submitted (Part B, Item 1) ;
 - an O+M plan (due February, 1996) has yet to be submitted (Part H, Item 1), and;
 - the Terms of Reference for the solid waste disposal site was never submitted (Part D, Item 8 - see text of report).
4. It is advised that a schedule for addressing these outstanding issues be developed and submitted to the Nunavut Water Board and this office at your earliest opportunity.
5. With respect to operational issues, warning signs remain to be placed at the water supply and waste disposal facilities. In addition, the way in which the bulky waste metal disposal site has encroached into the sewage wetlands treatment area is something that has to be addressed.

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6. As with the analytical results gathered in 1997, the results collected at SNP station 1532-2 (sewage effluent) indicate that the present wetlands area provides significant sewage treatment for the community.
7. If you have any questions about the inspection report, licence requirements or 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
smithp@inac.gc.ca

- 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 27, 1998 COMPANY REP.: Johnny Oyakyak
LICENSEE: Hamlet of Cambridge Bay LICENCE #: N4L3-1532

WATER SUPPLY

Source (s): White Lake Quantity Used (to date): 2.3 million l/month
Owner/Operator: GNWT/Hamlet (estimate or actual)

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

Intake Facilities: A Storage Structure Note Treatment Systems A Note Chem. Storage A
Flow Meas. Device A Convey. Lines Note Pumping Stations A

Comments: Repairs and improvements to water supply/distribution system was to be completed within a couple of weeks (system froze last winter).

WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Secondary
Natural Water body _____ Continuous Discharge (land or water) _____
Seasonal Discharge ✓ Wetlands Treatment ✓ 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 N/A Erosion Note
Disch. Meas. Dev. N/A Dyke Inspection N/A Seepages N/A
Dams, Dykes N/A Freeboard N/A Spills N/A
Construction N/A O & M Plan Required A & R Plan N.I

Periods of Discharge: Seasonal Effluent Discharge Rate: Varies

Comments: Repairs have been made at the sewage discharge point to repair erosion - also new chutes + bollards. Honey bog pit has been raised and repaired.

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) Has been collecting samples with MACA.
(DIAND) 1532-2 (sewage effluent)

Signs Posted: SNP Yes Warning Required (ready to be placed)

Record & Reporting Hamlet has failed to submit 1997 Annual Report. Solid Waste Disposal Site Assessment TOR never submitted - see pg. 2.

Geotechnical Inspection: NA

Non-Compliance of Act or Licence: Noted above. Failure to submit 1997 Annual Report; Failure to submit TOR for dump assessment. O+m plan has yet to be submitted

Page 2 attached Yes ✓ No _____

Licensee Representatives Title

NA

Licensee Representatives Signature

Inspectors Name

Paul Smith

Paul Smith

Inspectors Signature

Inspection Report

Hamlet of Cambridge Bay
August 27, 1998

Page 2

Solid waste disposal site assessment. The licence requires that a Terms of Reference be developed and submitted prior to the actual site assessment taking place. MACA had initiated a study of their own and modified their scope in order to assist the Hamlet. However, as MACA's modified TOR were never submitted to the NWB for approval, it is unknown if the work that MACA/Hamlet had done does in fact address the issues identified in the licence.

The TOR developed jointly by MACA and the Hamlet should be submitted to the NWB.

General

Sewage wetlands treatment has been encroached upon by the bulky waste metal disposal area. This could lead to leaching problems. Waste metal site should be pulled back to ensure that the 2 different types of waste do not overlap.

Warning signs have yet to be placed (although the Hamlet has received them).

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# 981427

SAMPLE INFORMATION

Our Lab#: 981427

Your Sample ID: Cambridge Bay 1532-2

Sample Matrix: WATER

Collection:

Location: Cambridge Bay

Date: 8/27/1998

By: P.Smith

PROJECT: SNP 1532

Received Date: Aug-28-1998

Report Date: 21-Sep-98

Approved By: W. Leahy**RECEIVED**

10 OCT 14 1998

D.I.A.N. 14/10
IQALUIT, NT 2**- SAMPLE ANALYSIS REPORT -**

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981427	Tot-Suspended-Solids	20	mg/L	3	9/10/1998	grav
	Ammonia-N	2.58	mg/L	0.002		007562
	Faecal_Coliform	450	CFU/dL	1	8/28/1998	036014
	Bio-Oxy-Demand	19	mg/L	2	8/28/1998	08208
	Tot-Mercury(water)	L0.01	ug/L	0.01	8/31/1998	080314
	Tot-Cadmium(ICP-MS)	L0.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	L0.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Chromium(ICP-MS)	2.3	ug/L	2.0	9/2/1998	ICP-MS
	Tot-Copper(ICP/MS)	3.6	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Manganese(ICP-MS)	181	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Iron(AA)	2.18	mg/L	0.020	9/1/1998	ICP-MS
	Tot-Nickel(ICP-MS)	2.8	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Lead(ICP-MS)	0.8	ug/L	0.2	9/2/1998	ICP-MS
	Tot-Zinc(ICP-MS)	11.1	ug/L	10.0	9/2/1998	ICP-MS