

DIAND Nunavut District
Box 100
Iqaluit, NT
X0A 0HO

December 9, 1998

Mrs. Rita Mike
Senior administrative Officer
Hamlet of Pangnirtung
Pangnirtung, NT
XOA ORO

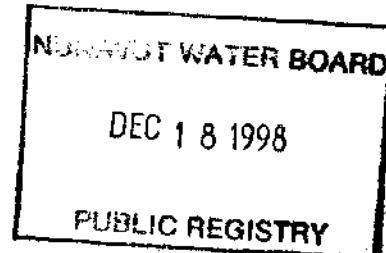
$$H_2 \oplus H_3 = \mathbb{C}^2 \oplus \mathbb{C}^2 = \mathbb{C}^4$$

180 J. P. McVITTIE

N5L4-1447

Dear Mrs. Mike:

Analytical Results; Water Samples Collected August 10, 1998



1. Attached are the analytical results of samples collected during the water licence inspection on August 10, 1998.
2. Three sets of samples were collected. The results are described below:

1447-2 (Duval River). The only parameter tested not within the Health and Welfare Guidelines was pH. The results were 6.46 (guidelines recommend 6.5-8.5). This is just outside the guidelines and does not raise too much concern.

1447-5 (sewage effluent). The two parameters analysed indicate that there is no treatment of sewage taking place before it enters the ocean.

1447-7 (dump leachate). These results indicate that there are high levels of ammonia and some metals leaching from the dump into the ocean.

3. Please note that this office is still waiting for the Hamlet to submit the 1997 Annual Report, a requirement of the current licence.
4. If you have any questions with respect to the analytical results, please do not hesitate to contact me at the above address or by phone at (867) 979-4405.

Sincerely,

Tom S. M.

Paul Smith
Water Resources Officer
Nunavut District

cc. - Nunavut Water Board, Gjoa Haven
- DIAND Water Resources, YK
- Nicole Ritchie, Environmental Health, Iqaluit
- Doug Silland, MACA, Iqaluit

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
 Attn: PAUL SMITH

LAB# 981295

SAMPLE INFORMATION

Our Lab#: 981295
 Your Sample ID: 1447-2
 Sample Matrix: raw water

PROJECT: SNP

Collection: Received Date: 13-Aug-98
 Location: Hamlet of Pangnirtun Report Date: 25-Aug-98
 Date: 10/08/1998 Approved By: *P. Smith*
 By: P. Smith

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981295	Tot-Suspended-Solids	L3	mg/L	3	14/08/1998	grav
	Tot-Cadmium(ICP-MS)	L0.1	ug/L	0.1	19/08/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	0.5	ug/L	0.1	19/08/1998	ICP-MS
	Tot-Chromium(ICP-MS)	2.2	ug/L	2.0	19/08/1998	ICP-MS
	Tot-Copper(ICP/MS)	L0.1	ug/L	0.1	19/08/1998	ICP-MS
	Tot-Manganese(ICP-MS)	6.3	ug/L	0.1	19/08/1998	ICP-MS
	Tot-Iron(AA)	L0.02	mg/L	0.020	18/08/1998	ICP-MS
	Tot-Nickel(ICP-MS)	L0.1	ug/L	0.1	19/08/1998	ICP-MS
	Tot-Lead(ICP-MS)	L0.2	ug/L	0.2	19/08/1998	ICP-MS
	Tot-Zinc(ICP-MS)	L10	ug/L	10.0	19/08/1998	ICP-MS
	pH	6.46	pH	0.05	14/08/1998	010301
	Conductivity	5.5	uS/cm	0.3	14/08/1998	02041
	Colour	L5		5.0	14/08/1998	02021
	Alkalinity	0.9	mg/L	0.3	14/08/1998	010101
	Turbidity	0.4	NTU	0.1	14/08/1998	002081

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To: NUNAVUT
WATER RESOURCES, NAP, DIAND
BOX 100
IQALUIT X0A 0H0
Att'n: PAUL SMITH

LAB# 981293

SAMPLE INFORMATION

Our Lab#: 981293
Your Sample ID: 1447-5
Sample Matrix: water grab

PROJECT: SNP

Collection:

Received Date: 13-Aug-98

Location: Hamlet of Pangnirtun
Date: 10/08/1998
By: P.Smith

Report Date: 25-Aug-98

Approved By: ✓

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981293	Tot-Suspended-Solids	344	mg/L	3	14/08/1998	grav
	Ammonia-N	H	102	mg/L	0.002	20/08/1998
					007562	

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IQALUIT
X0A 0H0
Attn: PAUL SMITH

LAB# 981294

SAMPLE INFORMATION

Our Lab#: 981294
Your Sample ID: 1447-7
Sample Matrix: leachate

PROJECT: SNP

Collection:

Location: Hamlet of Pangnirtung
Date: 8/10/1998
By: P. Smith

Received Date: Aug-14-1998

Report Date: 02-Sep-98

Approved By: W. Smith

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981294	Tot-Suspended-Solids	30	mg/L	3	8/14/1998	grav
	Ammonia-N	30.4	mg/L	0.002	8/20/1998	007562
	Tot-Cadmium(ICP-MS)	0.4	ug/L	0.1	8/19/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	15.7	ug/L	0.1	8/19/1998	ICP-MS
	Tot-Chromium(ICP-MS)	3.6	ug/L	2.0	8/19/1998	ICP-MS
	Tot-Copper(ICP/MS)	45.2	ug/L	0.1	8/19/1998	ICP-MS
	Tot-Iron(AA)	6.16	mg/L	0.020	8/18/1998	ICP-MS
	Tot-Manganese(ICP-MS)	8960	ug/L	0.1	8/19/1998	ICP-MS
	Tot-Nickel(ICP-MS)	30.6	ug/L	0.1	8/19/1998	ICP-MS
	Tot-Lead(ICP-MS)	2.2	ug/L	0.2	8/19/1998	ICP-MS
	Tot-Zinc(ICP-MS)	1160	ug/L	25.0	8/25/1998	ICP-MS